

Olerup SSP® HLA-B low resolution

| | |
|---|--|
| Product number: | 101.501-48/12 – including Taq pol. |
| Lot number: | 63G |
| Expiry date: | 2011-November-01 |
| Number of tests: | 48 tests – Product No. 101.501-48 12 tests – Product No. 101.501-12 |
| Number of wells per test: | 47 + 1 |
| Storage - pre-aliquoted primers: | dark at -20°C |
| - PCR Master Mix: | -20°C |
| - Adhesive PCR seals | RT |
| - Product Insert | RT |

This Product Description is only valid for Lot No. 63G.

CHANGES COMPARED TO THE PREVIOUS OLERUP SSP® HLA-B LOW RESOLUTION LOT

The HLA-B low resolution specificity and interpretation tables have been updated for the HLA-B alleles reported since the previous *Olerup SSP® HLA-B low resolution lot (Lot No. 90F)* was made.

The primers of the wells detailed below have been exchanged, added or modified compared to the previous lot.

| Well | 5'-primer | 3'-primer | rationale |
|-------------|------------------|------------------|--|
| 5 | - | Modified | Exchanged positive control primer pair, modified 3'-primer for improved specificity. |
| 6 | - | Modified | Modified 3'-primer for improved specificity. |
| 9 | - | - | Exchanged positive control primer pair. |
| 10 | Moved | Moved | Primer pair moved to well 14 for increased specificity. |
| 14 | Added | Added | Primer pair from well 10. |
| 17 | - | - | Exchanged positive control primer pair. |
| 20 | Exchanged | Exchanged | Exchanged primer pair for improved specificity. |
| 26 | - | Added | Primer added for the B*400205 allele. |
| 27 | Exchanged | Exchanged | Exchanged primer pair to decrease primer dimer formation. |
| 40 | Modified | - | Modified 5'-primer for improved specificity. |

Change in revision R01 compared to R00:

1. The serological classification of the B*1518 allele has been corrected in the Specificity and Interpretation Tables.

Change in revision R02 compared to R01:

1. The HLA-B*5150 allele is amplified in primer mixes 30 and 36.

Change in revision R03 compared to R02:

1. The HLA-Cw*0312 and 0319 alleles are amplified in primer mix 41.

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Well 48 contains Negative Control primer pairs, that will amplify more than 95% of the *Olerup SSP®* HLA Class I, DRB, DQB1 and DPB1 amplicons as well as the amplicons generated by control primer pairs.

PCR product sizes range from 75 to 430 base pairs.
The PCR product generated by the control primer pair is 430 base pairs.

| Length of PCR product | 105 | 200 | 105 | 80 | 75 | 80 |
|------------------------------|--|---|--|--|--|--|
| 5'-primer¹ | 164 ^{5'} -CAC ^{3'} | 340 ^{5'} -Agg ^{3'} | 440 ^{5'} -TTA ^{3'} | 45 ^{5'} -Tg g ^{3'} | 45 ^{5'} -Tg g ^{3'} | 43 ^{5'} -Tg g ^{3'} |
| 3'-primer² | 231 ^{5'} -TgC ^{3'} | 2nd ^{5'} -AAA ^{3'} | 507 ^{5'} -TTg ^{3'} | 59 ^{5'} -CTC ^{3'} | 58 ^{5'} -ggC ^{3'} | 57 ^{5'} -CTC ^{3'} |
| A* | + | + | + | | | |
| B* | + | + | + | | | |
| Cw* | + | + | + | | | |
| DRB1 | | | | + | + | |
| DRB3 | | | | + | + | |
| DRB5 | | | | + | | |
| DQB1 | | | | | + | |
| DPB1 | | | | | | + |

¹The nucleotide position for HLA class I genes and the codon for HLA class II genes, in the 2nd or 3rd exon, matching the specificity-determining 3'-end of the primer is given. Nucleotide and codonnumbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

²The nucleotide position for HLA class I genes and the codon for HLA class II genes, in the 2nd or 3rd exon or the 2nd intron, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Nucleotide and codon numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

PRODUCT DESCRIPTION

HLA-B low resolution SSP typing

CONTENT

The primer set contains 5'- and 3'-primers for grouping the B*0702 to B*8301 alleles into the corresponding serological groups B7 to B81 as well as primer pairs for recognizing the Bw4 and Bw6 sequence motifs.

PLATE LAYOUT

Each test consists of 48 PCR reactions in a 48 well cut PCR plate.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----|----|----|----|----|----|----|----|
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |

Wells 1 to 47 – HLA-B low resolution primers.

Well 48 – Negative Control.

The 48 well cut PCR plate is marked with 'HLA-B low' in silver/gray ink.

Well No. 1 is marked with the Lot No. '63G'.

A faint row of numbers is seen between wells 1 and 2 or wells 7 and 8 of the PCR trays. These stem from the manufacture of the trays, and should be disregarded.

The PCR plates are covered with a PCR-compatible foil.

Please note: When removing each 48 well PCR plate, make sure that the remaining plates stay covered. Use a scalpel or a similar instrument to carefully cut the foil between the plates.

INTERPRETATION

Only HLA-B alleles will be amplified by the HLA-B low resolution typing kit, except that primer mix 1 will amplify the Cw*0223 allele, primer mix 3 will amplify the HLA-Cw*0305, Cw*0325 and Cw*0327 alleles, primer mix 4 will amplify the Cw*0130 allele, the Cw*0746 allele will be amplified by primer mix 8, primer mix 40 will amplify the Cw*150204 allele, primer mix 41 will amplify the Cw*0312 and Cw*0319 alleles, primer mix 43 will weakly amplify the Cw*0206 allele and primer mix 45 will amplify the Cw*0620 allele. Thus, the interpretation of HLA-B low resolution typings is only influenced by the Cw*0130, Cw*0206, Cw*0223, Cw*0305, Cw*0312, Cw*0319, Cw*0325, Cw*0327, Cw*0620, Cw*0746 and Cw*150204 alleles and not by other alleles of other HLA class I genes.

UNIQUELY IDENTIFIED ALLELES

All the HLA-B alleles recognized by the HLA Nomenclature Committee in October 2009¹ will be amplified by the primers in the HLA-B low resolution SSP kit. The HLA-B alleles will be grouped into their corresponding serological specificities².

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¹HLA-B alleles listed on the IMGT/HLA web page 2009-October-19, release 2.27.0, www.ebi.ac.uk/imgt/hla.

²It is not possible to identify all serological splits and combinations of the B15 group of alleles, as the serological reactivity of several of the B*15 alleles is not known.

The resolution has been updated to fulfill the NMDP medium resolution confirmatory typing requirements effective from February 1st 2001.

DNA-based HLA-B typing resolution required:

B*07xx, B*08xx, B*13xx, B*14xx, B*18xx, B*27xx, B*1522, B*35xx, B*37xx, B*38xx, B*39xx, B*4005, B*41xx, B*42xx, B*44xx, B*45xx, B*46xx, B*47xx, B*48xx, B*49xx, B*50xx, B*51xx, B*52xx, B*53xx, B*54xx, B*55xx, B*56xx, B*57xx, B*58xx, B*59xx, B*67xx, B*73xx, B*78xx, B*81xx, B*82xx,

B*40EJD^a 4001, 4007, 4010, 4012, 4014, 4015, 4016

B*40EJB^b 4002, 4003, 4004, 4006, 4008, 4009, 4011, 4013, 4018, 4019, 4020

B*15EJA^c 1501, 1504, 1505, 1506, 1507, 1520, 1524, 1525, 1526N, 1527, 1528, 1530, 1532, 1533, 1534, 1535, 1536, 1538, 1539, 1540, 1543, 1545

B*15AHM^d 1516, 1517

B*15EHZ^e 1503, 1509, 1510, 1518, 1523, 1529, 1537, 1547

B*15CYP^f 1502, 1508, 1511, 1515, 1521, 1531, 1544

B*15AND^g 1512, 1514, 1519

B*1513^h

^aB60 serologic equivalent cluster.

^bB61 serologic equivalent cluster.

^cB62 serologic equivalent cluster.

^dB63 serologic equivalent cluster.

^eB70 serologic equivalent cluster.

^fB75 serologic equivalent cluster.

^gB76 serologic equivalent cluster.

^hB77 serologic equivalent cluster.

The B*0826 and the B*4207 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B*1408 and the B*3925N, 3930, 3932-3934, 3947 and 3950 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B*180702 and 1829 and the B*3532, 3537, 3553N, 3564, 3566, 356801-356802 and 3599 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B*180702 and 1829 and the B*3532, 3537, 3553N, 3564, 3566, 356801-356802 and 3599 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B*4109 and the B* 4502 and 4503 give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B*5523 and 5532 and the B*5618 give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

SPECIFICITY TABLE**HLA-B low resolution SSP typing**

Specificities and sizes of the PCR products of the 47 primer mixes used for HLA-B low resolution SSP typing

| Primer Mix | Size of spec. PCR product ¹ | Size of control band ² | HLA-B serol. ³ | Amplified HLA Class I ^{4,5} alleles |
|------------------|--|-----------------------------------|---|---|
| 1 ^{6,7} | 110 bp | 800 bp | 7, 15, 37, 40, 41, 42, 48 | *070201-071802, 0720-0732, 0734- 0739, 0741-0747, 0749N, 0750, 0752, 0754-0759, 0761-0799, 9538, 3707, 4015, 4016, 4023, 4032, 4098, 4108, 420501, 420502, 4805, 4808, 4815, Cw*0223 |
| 2 | 215 bp | 1070 bp | 8, 15, 44 | *080101-0825, 0827-0847, 9542, 4449, 5168 |
| 3 | 140 bp, 235 bp | 1070 bp | 7, 8, 13, 15, 35, 40, 4005, 44, 46, 53, 57 | *0720, 0724, 0760, 0821, 0825, 130101-1304, 1306-1308Q, 1310- 1323, 1325-1330, 1507, 1536 ^w , 1545, 1555, 1568, 1589 ^w , 9526, 3505, 3516, 3517, 3522, 3530, 3551, 3558, 3572, 3589, 3597, 4005, 4071, 4408 ^w , 4454, 4457 ^w , 4460, 4612, 4620, 5164, 5314, 5818, Cw*0305, 0325, 0327 |
| 4 ⁸ | 130 bp, 265 bp | 1070 bp | 13, 14, 15, 35, 40, 41, 44, 45, 47, 49, 50 | *130101-1304, 1306-1313, 1315- 1323, 1325-1330, 1401-1404, 1407N, 1409, 1411, 1412, 1414- 1416, 1546, 1553, 9506, 1844, 3546, 3547, 3563, 400101-400108, 4007, 4010, 401401-4016, 4022N, 4023, 4025, 4030-4034, 4036, 4038, 4042, 4043, 4045, 4047-4049, 4051-4055, 4058-4063, 4065-4067, 4069, 407201-4073, 4076, 4077, 4079- 4081, 4084, 4087, 4088, 4092, 4101-4112, 44020101-440306, 440308-4405, 4409-4439, 4441- 4443, 4445-4456N, 4458N-4480, 4482, 4484-4488, 4501-4510, 47010101-4705, 490101-4902, 4904-4907, 500101-5002, 5004- 5006, 5008, 5009, Cw*0130 |

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| | | | | |
|-----------------------|------------------------------|----------------|---|---|
| 5⁹ | 185 bp, 235 bp | 800 bp | 14, 16, 27, 37, 38, 39, 47, 64, 67 | *1401, 1407N, 1408, 1410, 1412, 1414, 2701-2706, 2708-2710, 2712, 2713, 2716-2718, 2720, 2723, 2726, 2727, 2729, 2731, 2735-2737, 2739- 2742, 2744-2746, 2748-2759N, 3702, 380101-3803, 3807-3820, 39010101, 39010102L, 390103- 390108, 390110, 390201, 3903, 3905-390602, 3907 [?] , 3908, 3909, 3911, 3914, 3915, 3918, 391902, 3922, 3924-3944, 3946-3948, 3950- 3954, 4704, 4705, 670101 |
| 6⁹ | 185 bp | 800 bp | 14, 35, 38, 39, 65 | *140201, 140202, 1403-140602, 1409, 1411, 1413, 1415, 1416, 3526, 3805, 3904, 3907 [?] |
| 7¹⁰ | 290 bp | 1070 bp | 15, 62, 63, 75, 76, 77, 46 | *15010101-150103, 150106-150202, 150303-1508, 151101-151103, 1512-1515, 15170101-151702, 1519-1521, 1524-1528, 1530-1536, 153801-1540, 1542-1546, 1548, 1550, 1555-1558, 1560, 1563, 1565, 1566, 1570, 1571, 1573, 1575- 1579N, 1581-1589, 1592, 1594N, 1596, 1597, 9501, 9502, 9504-9507, 9509-9513, 9516-9518, 9520-9522, 9525, 9526, 9528, 9529, 9535-9550, 9552, 9554, 9555, 9557, 9559, 9560, 9562-9572, 9574, 9575, 9577, 9578, 460101-4622 |
| 8 | 165 bp, 220 bp, 330 bp | 1070 bp | 8, 15, 37, 40, 41, 42, 44, 45, 51, 56, 57, 62, 70, 71, 72 | *080101-0805, 0808N-081203, 0815-0819N, 0821-0824, 0826, 0827, 0829-0836, 0838, 0839, 0841- 0847, 150301-150303, 1509, 1510, 151801-151803, 1523, 1529, 1537, 1546, 1547, 1549, 1551-1554, 1561, 1562, 1564, 1569, 1572, 1574, 1580, 1583, 1590, 1591, 1593, 1598, 1599, 9503, 9506, 9508, 9514, 9515, 9519, 9523, 9524, 9527, 9531-9534, 9543, 9551, 9553, 9556, 9558, 9561, 9573, 9576, 3587, 3712, 4012, 4101- 410302, 4105-4109, 4111, 4112, 420101-4202, 4204-4208, 4210- 4213, 4414, 4415, 4418, 4420, 4462, 4501-4510, 5108, 5120, 5136, 5144N, 5520, 5613, 5709, 8201, 8202, Cw*0746 |

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|-----------------------|-------------------|---------------|--|--|
| 9¹⁰ | 165 bp, 390 bp | 1070 bp | 15, 35, 40, 51, 52, 56, 58, 62, 63, 70, 78 | *150102, 1509, 1516-151702, 1567, 1595, 9562, 9568, 9577, 350110, 350402, 4026, 4028, 4462, 510101- 510103, 510105-510203, 5103- 510902, 5111N, 5112, 511302, 5114, 5117-5120, 5122, 5123, 5126- 5130, 5132, 5133, 5137-5141N, 5143, 5144N, 5146, 5148-5161, 5163-5180, 5183, 5184, 520101- 520104, 5202-5207, 5209-5213, 5215, 5216, 560501-5606, 5621, 5808, 7801-7806 |
| 10 | 180 bp | 800 bp | 13, 15, 40, 55, 62, 70, 71, 72, 75 | *0778, 130101-130206, 1307N- 1309, 1311, 1314-1320, 132201- 1323, 1325, 1327-1330, 4048, 4510, 4907, 5509, 5522, 5524 |
| 11⁶ | 105 bp, 195 bp | 1070 bp | 7, 8, 15, 27, 38, 39, 40, 44, 45, 48, 55, 72 | *0727, 0750, 0804, 0817, 150301- 150303, 1547, 1549, 1554, 1561, 1562, 1564, 1568, 1569, 1591, 1598, 9503, 9523, 9527, 9531, 9532, 9551, 9556, 9558, 9573, 1837, 2718, 2729, 3803, 390201, 390202, 3908, 391301, 391302, 3923, 3939, 3949, 4012, 4046, 4093, 4211, 4410, 4415, 4418, 4440, 4444, 4501, 4505-4507, 480101-4805, 4807-4820, 5002, 5216, 5518, 8201, 8202 |
| 12 | 280 bp | 1070 bp | 7, 8, 13, 15, 18, 35, 39, 40, 42, 44, 46, 48, 49, 51, 53, 54, 55, 56, 57, 58, 62, 63, 70, 71, 72, 75, 76, 77 | *0709, 0711, 0717, 0828, 0835, 0837, 1304, 1310, 1326, 15010101- 150104, 150106-1508, 151101- 1516, 151801-1521, 1523-1529, 1531-1536, 153801-1540, 1543, 1544, 1546, 1547, 1549-1557, 1560- 1562, 1564-1572, 1574-1576, 157801-1582, 1584, 1585, 1587- 1589, 1591-1598, 9501-9529, 9531, 9532, 9534-9536, 9538-9549N, 9551-9561, 9563-9567, 9569-9576, 9578, 180101-1815, 1817N-1825, 1827-1840, 1842-1845, 2741, 350101-350113, 3505, 3507- 350804, 3510, 3511, 351401-3517, 3519-3521, 3523-3530, 3532, 3535, 3537, 3540N-3543, 3545-3554, 3557, 3558, 3561-3564, 3566-3569, 3571, 3572, 3576-3580, 3582, 3586, 3589-3594, 3597, 3599, 3907, 3943, |

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|-----------------------|------------------------------|---------------|--|--|
| | | | | 4003, 4020, 4038, 4052, 4059, 4060, 4209, 4417, 4443, 4509, 460101-4610, 4612-4617, 4619-4622, 4802, 4814, 4904, 4905, 5137, 5145, 5163, 530101-5303, 5305, 5306, 5308-5318, 5406, 5409, 5414, 5514, 5523, 5532, 5603, 5609, 5618, 570101-570105, 5706, 5708, 5710, 5711, 5713-5716, 5718-5726, 580101-5802, 5804-5807, 5809-5819, 5821-5824 |
| 13 | 195 bp | 1070 bp | 15, 35, 37, 38, 44, 58, 76 | *1512, 1514, 1519, 1591, 9531, 9561, 3545, 3571, 370101-3709, 3712, 3713, 3715-3719, 3817, 4417, 4443, 4509, 4617, 5807 |
| 14⁶ | 105 bp, 395 bp, 435 bp | 1070 bp | 7, 15, 41, 42, 59, 62, 63, 70, 71, 77 | *0704, 0725, 1509, 1510, 1513, 1516-151803, 1521, 1523, 1524, 1537, 1544, 1551, 1552, 1566, 1567, 1572, 1580, 1587, 1590, 1593, 1595, 1599, 9508, 9514, 9515, 9519, 9524, 9533, 9534, 9553, 9557, 9561, 9562, 9568, 9576, 9577, 4108, 420501, 420502 |
| 15⁶ | 115 bp | 1070 bp | 18 | *180101-180701, 1808-1815, 1817N-1828, 1830-1836, 1838-1845 |
| 16⁶ | 80 bp | 1070 bp | 27, 40, 44 | *0773, 2701-2721, 2723-2751, 2753-2759N, 4046, 4093, 4440, 4444 |
| 17 | 150 bp | 800 bp | 13, 15, 27, 35, 37, 39, 40, 44, 48, 51, 53, 55, 56, 57, 58, 62, 75, 77 | *130101, 130102, 1306, 1307N, 1312, 1313, 1317, 1320, 132201-1323, 1325, 1326, 1328, 1329, 1410, 150201, 150202, 1513, 1520, 1521, 152501, 152502, 1536, 1544, 1562, 1577, 1580, 1585, 1588, 1589, 9506, 9512, 9521, 9539, 9544, 9554, 9570, 1822, 2719, 2730, 350101-350403, 3506-350804, 3510-3517, 3519-3521, 3523-3530, 3533-3536, 3538-3542, 3545-3550, 3552, 3554-3557, 3559, 3561-3563, 3565Q, 3569-3571, 3574, 3576-3578, 3580-3585, 3590-3596, 3598, 370101-370107, 3703N-3706, 3708, 3710, 3711, 3713-3719, 3820, 3942, 4028, 44020101-4414, 4416, 4417, 4419N, 4421-4430, 4432-4440, 4442-4446, 4448-4452N, 4455-446402, 4466-4488, 4802, 5104, 5142, 5146, 5156, |

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|-----------------|-------------------|---------------|--|---|
| | | | | 530101-5313, 5315-5319, 5514, 5609, 5611, 5612, 570101-570104, 5702-5710, 5712, 5714-5720, 5722- 5726, 580101, 580102, 5804, 5805, 5809-5815, 5817N, 5819, 5821- 5824, 8301 |
| 18 | 135 bp | 1070 bp | 8, 18, 35, 37, 39, 56, 78 | *0765, 0832, 180101-1808, 1810- 1815, 1817N-1836, 1838-1845, 350101-3518, 352001-3524, 3528- 3545, 3548, 3550-3555, 3557-3562, 3564-3572, 3574-3599, 3711, 391901, 391902, 5606, 7801-7805 |
| 19 ⁷ | 245 bp, 400 bp | 1070 bp | 15, 62, 63, 70, 71, 72, 75, 76, 77, 40, 44 | *15010101-150104, 150106-1521, 1523-1540, 1542-1558, 1560-1567, 1569-1575, 1576 ^w , 1577-1599, 9501-9529, 9531-9578, 4012, 4410, 8201, 8202 |
| 20 | 210 bp | 800 bp | 7, 8, 15, 18, 37, 38 | *0727, 370101-3719, 3817 |
| 21 | 170 bp | 800 bp | 15, 35, 38, 39, 67 | *1569, 3535, 380101-3809, 3811- 3820, 39010101, 39010102L, 390103-3920, 3922-3924, 3926- 3929, 3931, 3935, 3937-3942, 3944- 3946, 3948, 3949, 3951-3954, 5820, 670101-6702 |
| 22 ⁶ | 110 bp | 1070 bp | 38 | *380101-3803, 3805, 3808-3820 |
| 23 | 395 bp | 1070 bp | 14, 38, 39, 64, 65 | *0769, 0785, 1401-1416, 380101- 380202, 3804, 3805, 3808-3820, 39010101, 39010102L, 390103- 390110, 3903-3907, 3909, 3911, 3912, 3914, 3915, 3918-391902, 3922, 3924-3938Q, 3940N-3948, 3950-3954 |
| 24 | 425 bp | 1070 bp | 7, 8, 14, 39, 40, 41, 42, 45, 48, 50, 60, 64, 65, 67, 73 | *070201-0726, 0728-0735, 0737, 0739-0764, 0766-0780, 0782-0799, 080101-080109, 0804-0835, 0837- 0847, 1401-1416, 39010101, 39010102L, 390103-3920, 3922- 3954, 400101-400108, 4007, 4009 [?] - 4011 [?] , 401401 [?] -4015 [?] , 4016, 4018 [?] , 4021 [?] , 4022N [?] , 4023, 4024 [?] -4038 [?] , 4042 [?] -4046 [?] , 4048 [?] -4050 [?] , 4051, 4052 [?] -4058 [?] , 4059, 4060, 4061 [?] - 4065 [?] , 4066, 4067 [?] -4069 [?] , 4071 [?] , 407201-4073, 4074 [?] , 4075 [?] , 4077, 4078 [?] , 4079, 4080 [?] -4088 [?] , 4090 [?] - 4093 [?] , 4095 [?] , 4098 [?] , 4101-4112, 420101-4202, 4204-4213, 4501- |

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|--------------------|---|---------|--|--|
| | | | | 4510, 480101-4817, 4819, 4820, 500101-5002, 5004-5009, 670101- 6702, 7301, 8102 |
| 25 ⁷ | 175 bp | 1070 bp | 15, 40, 44, 46, 48, 60 | *9516, 9524, 400101-400106, 400108, 4007, 4010, 4012, 4021- 4023, 4025, 4033, 4036, 4038, 4042, 4043, 4046-4049, 4051, 4052, 4054, 4055, 4060-4063, 4065-4067, 4069, 4073, 4074, 4076, 4079, 4081, 4084, 4087, 4088, 4092, 4431, 4606, 480301, 480302 |
| 26 ¹⁰ | 130 bp | 1070 bp | 40, 61 | *400201-400602, 4008, 4009, 4011, 4013, 4018-4020, 4024, 4026-4029, 4035, 4037, 4039, 4040, 4044, 4050, 4056, 4057, 4064, 4068, 4070, 4071, 4074, 4075, 4078, 4082, 4085, 4086, 4089-4091, 4094-4098 |
| 27 ⁶ | 105 bp | 1070 bp | 7, 8, 41, 42, 55 | *0704, 0725, 080101-0805, 0807- 081203, 0814-0819N, 0821-0824, 0826-0839, 0841-0847, 3587, 4101- 4108, 4110-4112, 420101-4202, 4204-4207, 4209-4213, 5520 |
| 28 | 325 bp | 1070 bp | 7, 15, 27, 42, 45, 46, 54, 55, 56, 67, 73, 81 | *070201-070218, 0704-0707, 0709- 0712, 0713 ^w , 0714, 0715 ^w , 0717- 0726, 0728-0731, 0733-0736, 0739- 0746, 0747 ^w , 0748, 0749N, 0751- 0768, 0770-0784, 0786-0799, 1576, 9501, 2701-2711, 2713-2715, 2717, 2719-2721, 2724-2728, 2730-2738, 2740-2758, 3576, 420101-4202, 4204-4206, 4208-4210, 4212, 4213, 4506, 460101, 460102, 4602 ^w , 4603- 4622, 5401-5419, 550101-5505, 5507-5517, 5519-5538, 560101- 5616, 5618-5622, 5624-5626, 670101, 670102, 6702 ^w , 7301, 8101- 8104N, 8201, 8202, 8301 |
| 29 ^{6,11} | 115 bp, 195 bp, 225 bp, 260 bp | 1070 bp | 35, 37, 44, 47, 51, 57 | *3538, 3545, 3571, 370101-370107, 3703N-3706, 3708, 3710-3719, 4213, 44020101-4414, 4416, 4417, 4419N-4436, 4438-4463, 4465- 4488, 5142, 5707, 5709, 5724, 8301 |
| 30 | 215 bp | 800 bp | 8, 12, 15, 41, 42, 44, 45, 51, 52, 53, 55, 56, 58 | *0809, 1583, 4101, 4105-4107, 4109, 4112, 4204, 4406, 4415, 4418, 4420, 4501-4510, 510101, 510103- 510108, 510110-510201, 510203- 5104, 5106-510901, 5110-5114, |

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| | | | | |
|-----------------|-------------------|---------------|---|---|
| | | | | 5116-512402, 5126-5146, 5148- 5153, 5155-5177, 5179-5184, 520102, 520104, 5202, 5203, 520601, 520602, 5209, 5306, 5520, 5613, 5808 |
| 31 | 130 bp, 270 bp | 1070 bp | 18, 35, 37, 40, 46, 51, 53, 57, 58 | *1410, 1557 ^w , 1822, 3521, 3524, 3581, 3596, 3704, 4028, 460101- 4622, 5104, 5146, 5156, 5302, 5306, 5714, 5809 |
| 32 ⁶ | 90 bp , 410 bp | 1070 bp | 27, 35, 47, 54, 55, 56, 81 | *0765, 2702-2711, 2713-2715, 2717, 2719-2721, 2724-2728, 2730-2738, 2740-2758, 3576, 47010101-4703, 5401-5419, 550101-5505, 5507- 5517, 5519-5538, 560101-5616, 5618-5622, 5624-5626, 8101, 8201, 8202, 8301 |
| 33 ⁶ | 90 bp, 175 bp | 1070 bp | 15, 27, 35, 40, 48, 62, 75, 77, 81 | *150201, 150202, 1508, 151101- 151104, 1513, 1515, 1521, 1531, 1544, 1555, 1576 ^w , 1588, 1589, 9512, 9521, 9539, 9544, 9548, 9570, 2724, 3546, 4031, 4045, 4080, 480101, 480102, 4804, 4806, 4807, 4809, 4811, 4815, 4816, 4818-4820, 5535 ^w , 8101-8104N |
| 34 | 145 bp, 430 bp | 1070 bp | 40, 44, 49 | *4013, 4019, 4418, 4425, 4450, 490101, 490102, 4904-4907, 5412, 5621, 5901-5905 |
| 35 ⁶ | 120 bp, 210 bp | 800 bp | 13, 15, 45, 49, 50, 51, 52, 55, 56, 58, 62, 63, 78 | *0778, 0784, 1316, 1504 ^w , 1516, 1542, 1567, 1595, 9537 ^w , 4095, 490101, 4902-4907, 500101-5002, 5004-5009, 510101-5103, 5105, 5107-510902, 5111N-5114, 5116- 512402, 5126-5141N, 5143, 5144N, 5148-5155, 5157, 5158, 5160, 5161 ^w , 5163, 5165-5180, 5182- 5184, 520101-5216, 550101- 550106, 5503, 5505, 5509, 5511, 5515, 5517, 5521 ^w , 5524, 5525, 5528, 5529, 5531, 5533, 5536, 5538, 560501-5606, 5621, 5625, 5808, 7801-7806 |
| 36 | 430 bp | 1070 bp | 27, 40, 44, 45, 51, 52, 53, 57, 58, 59 | *2702, 2730, 2753, 2757, 4013, 4019, 4406, 4425, 4450, 510101- 512402, 5126-5146, 5148-5153, 5155-5177, 5179-5184, 520101- 5216, 530101-5302, 5304-5308, 5310, 5314-5319, 570101-5711, |

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| | | | | |
|-----------------------|-------------------|---------|--|---|
| | | | | 5713-5726, 580101-5802, 5804-5816, 5818-5824 |
| 37 | 145 bp | 1070 bp | 15, 35, 40, 41, 44, 45, 47, 50, 72 | *1546, 1553, 9506, 9543, 3519, 3547, 3563, 400101-4011, 401401-4016, 4018, 4020, 4022N-4040, 4042-4045, 4048-4075, 4077-4092, 4094, 4095, 4097, 4098, 4101-4104, 4105 [?] , 4106-4112, 4409, 4446, 4475, 4501-4510, 4702, 4703 ^w , 500101-5002, 5004, 5005, 5007-5009 |
| 38 | 300 bp | 1070 bp | 7, 8, 13, 15, 18, 27, 35, 37, 38, 39, 40, 41, 44, 45, 46, 47, 48, 49, 50, 52, 55, 57, 58, 62, 72, 76, 78 | *0754, 0817, 0838, 130101-1304, 1306, 1308Q-1323, 1325-1330, 15010101-150104, 150106-150112, 150301-1507, 1512, 1514, 1519, 1520, 1524-152703, 1530, 1532-1536, 153801-1540, 1542, 1543, 1545-1550, 1553, 1554, 1556-1558, 1560-1563, 1565, 1566, 1568-1571, 1573-1575, 1577-1579N, 1581-1587, 1591, 1592, 1594N, 1596-1598, 9501-9507, 9509-9511N, 9513, 9516-9518, 9522, 9523, 9525-9529, 9531, 9532, 9535-9538, 9540-9542, 9545-9547, 9550-9552, 9554-9560, 9563-9567, 9569, 9571-9575, 9578, 1812, 2701-2721, 2724-2759N, 3510, 3513, 3516, 3528, 3563, 3569, 3580, 370101-3707, 3709-3719, 3803, 3804, 390201, 390202, 3908, 391301, 391302, 3922, 3923, 3949, 400101-4007, 4009-4016, 4018-4024, 4026-4040, 4042-4067, 4070-4098, 4101-4112, 4211, 44020101-4405, 4407-4411, 4413-4488, 4501-4510, 47010101-4705, 480101-4805, 4807-4815, 4817-4820, 490101-4907, 500101-5002, 5004-5009, 520101-5216, 5317, 5518, 5534, 7805, 7806 |
| 39 | 160 bp, 215 bp | 1070 bp | 15, 37, 44, 54 | *150104, 370104, 4094, 44020101-440210, 4406, 4408, 4409, 4411, 4412, 4416, 4419N-4424, 4427, 4433, 4434, 4441, 4444, 4448, 4449, 4452N, 4453, 4455, 4459, 4463, 4466-4468, 4471-4474, 4480, 4483, 4484, 4486, 4487, 5401-5419, 8301 |
| 40⁹ | 180 bp, | 1070 bp | 13, 15, 18, | *0765, 1306, 1542, 1586, 1804, |

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| | | | | |
|-------------------------|-------------------|---------------|---|--|
| | 210 bp | | 35, 39, 40, 54, 55, 56, 59, 78 | 3560, 3917, 4058, 4508, 4618, 5401, 5402, 5405N, 5407, 5408N, 5410, 5412, 5413, 5416-5419, 550101- 5503, 5505, 5507, 5510-5512, 5515, 5516, 5518, 5519, 5521, 5525, 5526, 5529-5531, 5533-5538, 560501, 5606, 5610, 5623, 5901, 5905, 7801, 780202, 7803, Cw*150204 |
| 41 | 180 bp | 1070 bp | 13, 15, 40, 44, 45, 46, 49, 50, 51, 54, 56 | *1303, 1573, 4071, 4410, 4415, 4418, 4501, 4504-4507, 4611, 490101-4903, 4906, 500101-5002, 5004-5008, 5115, 5162, 5403, 560101-5602, 5604, 5607, 5608, 5613, 5614, 5616, 5617, 5620, 5624-5626, 5904, 8201, 8202, Cw*0312, Cw*0319 |
| 42^{6,7} | 90 bp, 240 bp | 800 bp | 55, 57 | *5514, 570101-5715, 5717-5719, 5721-5726 |
| 43⁶ | 90 bp | 1070 bp | 13, 15, 39, 40, 56, 58 | *1311, 151803, 1573, 3917, 4048, 4071, 5162, 5602, 5604, 5610, 580101-5802, 5804-5824, Cw*0206^w |
| 44⁶ | 95 bp | 1070 bp | 8, 18, 35, 37, 38, 39, 44, 51, 52, 53, 78 | *0765 ^w , 0832, 180101-1811, 1813- 1815, 1817N-1836, 1838-1845, 350101-350902, 3511-351202, 351401-3515, 3517, 3518, 352001- 3524, 3527, 3529-3545, 3548, 3550- 3562, 3564-356802, 3570-3572, 3574, 3575, 3576 ^w , 3577-3579, 3581-3599, 3708, 3806, 3807, 391901, 391902, 4406, 510101- 512402, 5126-5146, 5148-5184, 530101-5316, 5318, 5319, 5606 ^w , 7801-7804 |
| 45^{6,7} | 115 bp, 150 bp | 1070 bp | 15, 18, 27, 35, 39, 46, 54, 55, 56, 62, 73, 75, 76 | *15010101-150104, 150106-150112, 1504, 1507, 1508, 151101-1512, 1514, 1515, 1519, 1524, 1526N- 1528, 1530, 1532, 1534, 1535, 153801, 153802, 1543, 1545, 1546, 1550, 1553, 1554, 1556-1558, 1560, 1563, 1566, 1568, 1570, 1571, 1573, 1575-1577, 1579N, 1581, 1582, 1585, 1587, 1592, 1594N, 1596, 1597, 9501, 9502, 9504, 9505, 9509-9511N, 9513, 9517, 9518, 9520, 9522, 9525, 9526, 9528, 9529, |

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| | | | |
|-----------|--------|---------|--|
| | | | 9535, 9537, 9540, 9542-9549N, 9552, 9554, 9557, 9559, 9560, 9563-9567, 9569, 9571, 9572, 9574, 9575, 9578, 1819, 2725, 351401, 351402, 3543, 3544, 3562, 3567, 3579, 3586, 3918, 3936, 460101- 4602, 4604, 4605, 4607N, 4609, 4610, 4612, 4614-4617, 4620, 4622, 5161, 5406, 5521, 5603, 7301, Cw*0620 |
| 46 | 360 bp | 1070 bp | Bw4 ¹² |
| 47 | 350 bp | 1070 bp | Bw6 |

¹Alleles are assigned by the presence of specific PCR product(s). However, the sizes of the specific PCR products may be helpful in the interpretation of HLA-B low resolution SSP typings. When the primers in a primer mix can give rise to specific PCR products of more than one length this is indicated if the size difference is 20 base pairs or more. Size differences shorter than 20 base pairs are not given. For high resolution SSP kits the respective lengths of the specific PCR product(s) of the alleles amplified by these primer mixes are given.

Nonspecific amplifications, i.e. a ladder or a smear of bands, may sometimes be seen. GC-rich primers have a higher tendency of giving rise to nonspecific amplifications than other primers, e.g. the primers in wells 5, 6, 38, 40.

PCR fragments longer than the control bands may sometimes be observed. Such bands should be disregarded and do not influence the interpretation of the SSP typings.

PCR fragments migrating faster than the control bands, but slower than a 400 bp fragment may be seen in some gel read-outs. Such bands can be disregarded and do not influence the interpretation of the SSP typings.

Some primers may give rise to primer oligomer artifacts. Sometimes this phenomenon is an inherit feature of the primer pair(s) of a primer mix. More often it is due to other factors such as too low amount of DNA in the PCR reactions, taking too long time in setting up the PCR reactions, working at elevated room temperature or using thermal cyclers that are not pre-heated

²The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 1070 base pairs, for most wells, or a band of 800 base pairs, for some wells.

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-B low resolution typing.

In addition, wells number 5, 6, 10, 17, 20, 21, 30, 35 and 42 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification. In the presence of a specific amplification the intensity of the control band often decreases.

³The serological reactivity of all HLA-B alleles is not known. In this table we used the information published in *Tissue Antigens* 1999: **54**: 409-437, also available at the www.worldmarrow.org web site and also inferred the serological grouping from the naming of the sequence-defined allele.

⁴For several HLA-B alleles only partial nucleotide sequences are available, especially for the 1st exon. In these instances it is not known whether some of the primers of the HLA-B low resolution SSP set are completely matched with the target sequences or not. We assume that unknown sequences are conserved within allelic groups.

The B*0826 and the B*4207 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B*1408 and the B*3925N, 3930, 3932-3934, 3947 and 3950 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B*180702 and 1829 and the B*3532, 3537, 3553N, 3564, 3566, 356801-356802 and 3599 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

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The B*4109 and the B* 4502 and 4503 give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B*5504, 5508, 5513 and 5527 and the B* 5615, 5619N and 5622 give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B*5523 and 5532 and the B*5618 give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

⁵Due to sharing of sequence motifs, non-HLA-B alleles will be amplified by a few primer mixes; primer mix 1 will amplify the Cw*0223 allele, primer mix 3 will amplify the HLA-Cw*0305, Cw*0325 and Cw*0327 alleles, primer mix 4 will amplify the Cw*0130 allele, the Cw*0746 allele will be amplified by primer mix 8, primer mix 40 will amplify the Cw*150204 allele, primer mix 41 will amplify the Cw*0312 and Cw*0319 alleles, primer mix 43 will weakly amplify the Cw*0206 allele and primer mix 45 will amplify the Cw*0620 allele. Furthermore, the Cw*1701 and Cw*1702 alleles might be faintly amplified by primer mix 25.

⁶Specific PCR fragments shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR bands.

⁷Primer mixes 1, 19, 25, 42 and 45 may give rise to a primer oligomer artifact.

⁸Primer mix 4 may yield less specific PCR product than the other HLA-B low resolution primer mixes in B*40, B*41, B*45, B*49 and B*50 alleles.

⁹Primer mixes 5, 6 and 40 may yield less specific PCR product than the other HLA-B low resolution primer mixes.

¹⁰Primer mixes 7, 9 and 26 might give rise to non-specific amplification products, most pronounced in primer mix 9. Primer mix 9 may furthermore faintly amplify the B*57 and B*58 alleles.

¹²Primer mix 29 might generate a false band of about 500 base pairs. This band should be disregarded when interpreting HLA-B low resolution typings.

¹³The Bw4-associated HLA-A specificities A23, A24, A2403, A25 and A32 are not amplified by the primer pair in primer mix 46.

'?', nucleotide sequence information not available for the primer matching sequence.

'w', might be weakly amplified.

INTERPRETATION TABLE**HLA-B low resolution SSP****Amplification patterns of the B*0702 to B*8301 alleles⁶**

| | Well | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |
| Length of spec. | | | | | | | | | | | | | | | | | | | | | | | | | |
| PCR product(s) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Length of int. pos. control ¹ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5'-primer(s) ² | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3'-primer(s) ³ | | | | | | | | | | | | | | | | | | | | | | | | | |
| Well No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |

INTERPRETATION TABLE

HLA-B low resolution SSP

Amplification patterns of the B*0702 to B*8301 alleles⁶

| Amplification patterns of the B-3122 to B-3301 alleles | | | | | | | | | | | | | | | | Well | | | | | | | | | | | | | |
|--|-----|--------|-----|--------|-----|----|----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|------|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | | | | | | | |
| "-Tgt" | 193 | "-Cgt" | 193 | "-ggA" | 499 | | | "-ggA" | 499 | "-Tct" | 499 | "-Agg" | 418 | "-Tca" | 355 | "-Agg" | 363 | "-Tca" | 1070 | "-Gac" | 540 | "-Cag" | 106 | "-Cgg" | 105 | "-Tgt" | 175 | | |
| "-gct" | 605 | "-gig" | 603 | "-GCC" | 282 | | | "-gTC" | 572 | "-ATC" | 309 | "-Tgg" | 357 | "-ATT" | 141 | "-ggC" | 209 | "-ggC" | 209 | "-ggC" | 209 | "-ggC" | 209 | "-ggC" | 209 | "-ggC" | 209 | "-ggC" | 209 |
| "-gTC" | 538 | "-ATC" | 309 | "-TCA" | 299 | | | "-ggA" | 499 | "-gTT" | 259 | "-Agc" | 363 | "-ggC" | 209 | "-Agc" | 363 | "-ggC" | 209 | "-Agc" | 363 | "-ggC" | 209 | "-Agc" | 363 | "-ggC" | 209 | "-Agc" | 363 |
| "-gTC" | 583 | "-TCA" | 299 | "-GCC" | 282 | | | "-ggA" | 499 | "-gTT" | 259 | "-gAA" | 206 | "-GCC" | 48 | "-gAA" | 206 | "-GCC" | 48 | "-gAA" | 206 | "-GCC" | 48 | "-gAA" | 206 | "-GCC" | 48 | "-gAA" | 206 |
| "-gTC" | 418 | "-GCC" | 282 | "-ggA" | 499 | | | "-ggT" | 311 | "-ATC" | 309 | "-Tgg" | 357 | "-Tgg" | 357 | "-Tgg" | 357 | "-Tgg" | 357 | "-Tgg" | 357 | "-Tgg" | 357 | "-Tgg" | 357 | "-Tgg" | 357 | "-Tgg" | 357 |
| "-CCT" | 527 | "-TCT" | 435 | "-ATC" | 309 | | | "-ggT" | 311 | "-CTC" | 259 | "-ggA" | 206 | "-gAA" | 206 | "-ggA" | 206 | "-gAA" | 206 | "-ggA" | 206 | "-gAA" | 206 | "-ggA" | 206 | "-ggA" | 206 | "-ggA" | 206 |
| "-CCT" | 559 | "-GGT" | 311 | "-CTC" | 259 | | | "-ggT" | 311 | "-GGT" | 311 | "-ggA" | 206 | "-gAA" | 206 | "-ggA" | 206 | "-gAA" | 206 | "-ggA" | 206 | "-ggA" | 206 | "-ggA" | 206 | "-ggA" | 206 | "-ggA" | 206 |
| "-gCT" | 420 | "-CTC" | 256 | "-CCG" | 175 | | | "-ggT" | 311 | "-GGT" | 311 | "-Agg" | 418 | "-CAG" | 1st | "-Agg" | 418 | "-CAG" | 1st | "-Agg" | 418 | "-CAG" | 1st | "-Agg" | 418 | "-CAG" | 1st | "-Agg" | 418 |
| "-gCT" | 420 | "-CTC" | 256 | "-CCG" | 175 | | | "-ggT" | 311 | "-GGT" | 311 | "-TTA" | 420 | "-ATT" | 141 | "-TTA" | 420 | "-ATT" | 141 | "-TTA" | 420 | "-ATT" | 141 | "-TTA" | 420 | "-ATT" | 141 | "-TTA" | 420 |
| "-gCT" | 538 | "-Tgc" | 272 | "-ggA" | 317 | | | "-ggT" | 311 | "-CAG" | 559 | "-CAG" | 559 | "-TTA" | 420 | "-TTA" | 420 | "-TTA" | 420 | "-TTA" | 420 | "-TTA" | 420 | "-TTA" | 420 | "-TTA" | 420 | "-TTA" | 420 |
| "-gCT" | 420 | "-CTC" | 256 | "-CCG" | 175 | | | "-ggT" | 311 | "-GGT" | 311 | "-TAC" | 369 | "-ggA" | 209 | "-TAC" | 369 | "-ggA" | 209 | "-TAC" | 369 | "-ggA" | 209 | "-TAC" | 369 | "-ggA" | 209 | "-TAC" | 369 |
| "-gCT" | 420 | "-CTC" | 256 | "-CCG" | 175 | | | "-ggT" | 311 | "-GGT" | 311 | "-Agc" | 463 | "-ACC" | 165 | "-Agc" | 463 | "-ACC" | 165 | "-Agc" | 463 | "-ACC" | 165 | "-Agc" | 463 | "-ACC" | 165 | "-Agc" | 463 |
| "-gCT" | 538 | "-Tgc" | 272 | "-ggA" | 317 | | | "-ggT" | 311 | "-GGT" | 311 | "-ggA" | 209 | "-CAG" | 1st | "-ggA" | 317 | "-CAG" | 1st | "-ggA" | 317 | "-CAG" | 1st | "-ggA" | 317 | "-CAG" | 1st | "-ggA" | 317 |
| "-gCT" | 420 | "-CTC" | 256 | "-CCG" | 175 | | | "-ggT" | 311 | "-GGT" | 311 | "-ggA" | 209 | "-CAG" | 1st | "-ggA" | 209 | "-CAG" | 1st | "-ggA" | 209 | "-CAG" | 1st | "-ggA" | 209 | "-CAG" | 1st | "-ggA" | 209 |

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| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|--|-------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | |
| *070201-070218, 070501-0707, 0710, 0712, 0714, 071801, 071802, 0721-0723, 0726, 0728-0731, 0734, 0735, 0739, 0741-0746, 0749N, 0752, 0755-0759, 0761-0764, 0766- 0768, 0770-0772, 0774-0777, 0779, 0780, 0782, 0783, 0786-0799 | B7 | 1 | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *0703, 0708, 0716, 0732, 0737 | B7, B703 | 1 | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *0704, 0725 | B7 | 1 | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *0709, 0711, 0717 | B7 | 1 | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *0713, 0715, 0747 | - | 1 | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *0719, 0733, 0740, 0748, 0751, 0753 | - | | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *0720, 0724 | - | 1 | 3 | | | | | | | | | | | | | | | | | | | | | | 24 |
| *0727 | - | 1 | | | | | | | | | | | | | | | | | | | | | | | 20 |
| *0736, 0781 | - | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| *0738 | - | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| *0750 | - | 1 | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *0754 | - | 1 | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *0760 | - | | 3 | | | | | | | | | | | | | | | | | | | | | | 24 |
| *0765 | - | 1 | | | | | | | | | | | | | | | | | | | | | | | 18 |
| *0769, 0785 | 1 | | | | | | | | | | | | | | | | | | | | | | | | 23 24 |
| *0773 | 1 | | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *0778 | 1 | | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *0784 | 1 | | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *080101-080109, 0805, 0808N, 0810- 081203, 0815, 0816, 0818, 0819N, 0822- 0824, 0827, 0829- 0831, 0833, 0834, 0839, 0841-0847 | B8, Null | 2 | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *0802, 0803 | B8 | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| *0804 | - | 2 | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *0806, 0813, 0820, 0840 | B8 | 2 | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *0807, 0814 | - | 2 | | | | | | | | | | | | | | | | | | | | | | | 24 |

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| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | | Well No. | | |
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| | | | | | | | | | | | | | | | | | | | | | | | | | | *070201-070218, 070501-0707, 0710, 0712, 0714, 071801, 071802, 0721-0723, 0726, 0728-0731, 0734, 0735, 0739, 0741-0746, 0749N, 0752, 0755-0759, 0761-0764, 0766- 0768, 0770-0772, 0774-0777, 0779, 0780, 0782, 0783, 0786-0799 |
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| *0809 | - | 2 | | 8 | | | | | 24 |
| *0817 | - | 2 | | 8 | 11 | | | | 24 |
| *0821 | | 2 3 | | 8 | | | | | 24 |
| *0825 | - | 2 3 | | 8 | | | | | 24 |
| *0826, 4207 | - | | | 8 | | | | | 24 |
| *0828, 0837 | - | 2 | | | 12 | | | | 24 |
| *0832 | - | 2 | | 8 | | | 18 | | 24 |
| *0835 | - | 2 | | 8 | 12 | | | | 24 |
| *0836 | - | 2 | | 8 | | | | | |
| *0838 | - | 2 | | 8 | | | | | 24 |
| *130101, 130102, 1317, 1320, 132201- 1323, 1325, 1328, 1329 | B13 | 3 4 | | | 10 | | 17 | | |
| *130201-130206, 1308Q, 1315, 1318, 1319, 1327, 1330 | B13 | 3 4 | | | 10 | | | | |
| *1303 | - | 3 4 | | | | | | | |
| *1304, 1310 | - | 3 4 | | | 12 | | | | |
| *1306 | - | 3 4 | | | | | 17 | | |
| *1307N | Null | 3 4 | | | 10 | | 17 | | |
| *1309 | - | 4 | | | 10 | | | | |
| *1311 | - | 3 4 | | | 10 | | | | |
| *1312, 1313 | - | 3 4 | | | | | 17 | | |
| *1314 | - | 3 | | | 10 | | | | |
| *1316 | - | 3 4 | | | 10 | | | | |
| *1321 | - | 3 4 | | | | | | | |
| *1326 | | 3 4 | | | 12 | | 17 | | |
| *1401, 1407N, 1412, 1414 | B64 | 4 5 | | | | | | 23 24 | |
| *140201, 140202, 1403, 1404, 1409, 1411, 1415, 1416 | B65 | 4 | 6 | | | | | 23 24 | |
| *140203 | - | 4 | | | | | | 23 24 | |
| *1405-140602, 1413 | - | | 6 | | | | | 23 24 | |
| *1408, 3925N, 3930, 3932-3934, 3947, 3950 | | | 5 | | | | | 23 24 | |
| *1410 | | | 5 | | | | 17 | | 23 24 |

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| 27 | 30 | | | | | | 47 | - | *0809 |
| 27 | | | | 38 | | | 47 | - | *0817 |
| 27 | | | | | | | 47 | | *0821 |
| | | | | | | | 47 | - | *0825 |
| 27 | | | | | | | 47 | - | *0826, 4207 |
| 27 | | | | | | | 47 | - | *0828, 0837 |
| 27 | | | | | | 44 | 47 | - | *0832 |
| 27 | | | | | | | 47 | - | *0835 |
| 27 | | | | | | | 47 | - | *0836 |
| 27 | | | 38 | | | | 47 | - | *0838 |
| | | | | 38 | | | 46 | B13 | *130101, 130102, 1317, 1320, 132201- 1323, 1325, 1328, 1329 |
| | | | | 38 | | | 46 | B13 | *130201-130206, 1308Q, 1315, 1318, 1319, 1327, 1330 |
| | | | | 38 | 41 | | 46 | - | *1303 |
| | | | | 38 | | | 46 | - | *1304, 1310 |
| | | | | 38 | 40 | | 46 | - | *1306 |
| | | | | | | | 46 | Null | *1307N |
| | | | | 38 | | | 47 | - | *1309 |
| | | | | 38 | | 43 | 46 | - | *1311 |
| | | | | 38 | | | 46 | - | *1312, 1313 |
| | | | | 38 | | | 46 | - | *1314 |
| | | 35 | 38 | | | | 46 | - | *1316 |
| | | | 38 | | | | 46 | - | *1321 |
| | | | 38 | | | | 46 | | *1326 |
| | | | | | | | 47 | B64 | *1401, 1407N, 1412, 1414 |
| | | | | | | | 47 | B65 | *140201, 140202, 1403, 1404, 1409, 1411, 1415, 1416 |
| | | | | | | | 47 | - | *140203 |
| | | | | | | | 47 | - | *1405-140602, 1413 |
| | | | | | | | 47 | | *1408, 3925N, 3930, 3932-3934, 3947, 3950 |
| | | | 31 | | | | 47 | | *1410 |

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| *15010101, 15010102N, 150103, 150106-150112, 1526N-152703, 1532, 1534, 1535, 153801, 153802, 1550, 1556, 1560, 1570, 1571, 1575, 1579N, 1581, 1582, 1592, 1594N, 1596, 1597, 9502, 9504, 9505, 9509- 9511N, 9513, 9517, 9518, 9522, 9525, 9528, 9529, 9535, 9540, 9545-9547, 9552, 9559, 9560, 9563-9567, 9569, 9571, 9572, 9574, 9575, 9578 | B62, Null, B15 | 7 | 12 | | | 19 | |
| *150102 | B62 | 7 | 9 | 12 | | 19 | |
| *150104 | B62 | | | 12 | | 19 | |
| *150201, 150202, 1588, 9512, 9521, 9539, 9570 | B75 | 7 | | 12 | | 17 | 19 |
| *150301, 150302, 1547, 1549, 1561, 1598, 9503, 9523, 9527, 9532, 9551, 9556, 9558, 9573 | B72 | | 8 | 11 12 | | | 19 |
| *150303 | B72 | | 7 8 | 11 12 | | | 19 |
| *1504 | B62 | | 7 | 12 | | | 19 |
| *1505, 1506, 1533, 1539, 1540, 1565, 157801, 157802, 1584, 9507, 9536, 9541, 9555 | B62, B15 | | 7 | | | | 19 |
| *1507, 9526 | B62 | 3 | 7 | 12 | | | 19 |
| *1508, 151101- 151103, 1515, 9548 | B75 | | 7 | 12 | | | 19 |
| *1509 | B70 | | 8 9 | | 14 | | 19 |
| *1510, 1537, 1590, 1599, 9533 | B71 | | 8 | | 14 | | 19 |
| *151104 | - | | | 12 | | | 19 |
| *1512, 1514, 1519 | B76 | | 7 | 12 13 | | | 19 |
| *1513 | B77 | | 7 | 12 14 | | 17 | 19 |
| *1516, 1567, 1595 | B63 | | | 9 12 14 | | | 19 |

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| | | | | | | | | *15010101, 15010102N, 150103, 150106-150112, 1526N-152703, 1532, 1534, 1535, 153801, 153802, 1550, 1556, 1560, 1570, 1571, 1575, 1579N, 1581, 1582, 1592, 1594N, 1596, 1597, 9502, 9504, 9505, 9509- 9511N, 9513, 9517, 9518, 9522, 9525, 9528, 9529, 9535, 9540, 9545-9547, 9552, 9559, 9560, 9563-9567, 9569, 9571, 9572, 9574, 9575, 9578 |
| | | 38 | | 45 | 47 | B62, Null, B15 | | *150102 |
| | | 38 | | 45 | 47 | B62 | | *150104 |
| | 33 | 38 39 | | 45 | 47 | B62 | | *150201, 150202, 1588, 9512, 9521, 9539, 9570 |
| | | | | | 47 | B75 | | *150301, 150302, 1547, 1549, 1561, 1598, 9503, 9523, 9527, 9532, 9551, 9556, 9558, 9573 |
| | | 38 | | | 47 | B72 | | *150303 |
| | | 38 | | | 47 | B72 | | *1504 |
| | | w | 38 | | 45 | 47 | B62 | *1505, 1506, 1533, 1539, 1540, 1565, 157801, 157802, 1584, 9507, 9536, 9541, 9555 |
| | | | 38 | | | 47 | B62, | *1507, 9526 |
| | | | 38 | | | 47 | B15 | *1508, 151101- 151103, 1515, 9548 |
| | | | | | 45 | 47 | B75 | *1509 |
| | | | | | 47 | B70 | | *1510, 1537, 1590, 1599, 9533 |
| | | | | | 47 | B71 | | *151104 |
| | 33 | | | | 45 | 47 | - | |
| | | | | | 45 | 47 | B76 | *1512, 1514, 1519 |
| | 33 | | | | | 46 | B77 | *1513 |
| | | | | | | 46 | B63 | *1516, 1567, 1595 |
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|---|---------------------|---|-----|---|----------|----|--|----|----|
| *15170101-151702, 9562, 9568, 9577 | B63 | | 7 | 9 | | 14 | | 19 | |
| *151801, 151802, 1551, 1552, 1572, 1593, 9508, 9514, 9519, 9534, 9553, 9576 | B62, B70, B71 | | 8 | | 12 | 14 | | 19 | |
| *151803 | - | | 8 | | 12 | 14 | | 19 | |
| *1520, 152501, 152502 | B62 | | 7 | | 12 | | | 17 | 19 |
| *1521, 1544 | B75 | | 7 | | 12 | 14 | | 17 | 19 |
| *1523, 9515 | - | | 8 | | 12 | 14 | | 19 | |
| *1524, 1587, 9557 | B62 | | 7 | | 12 | 14 | | 19 | |
| *1528, 9520, 9549N | B15 | | 7 | | 12 | | | 19 | |
| *1529 | B15 | | 8 | | 12 | | | 19 | |
| *1530, 1558, 1563 | B62, B15 | | 7 | | | | | 19 | |
| *1531 | B75 | | 7 | | 12 | | | 19 | |
| *1536 | - | w | 7 | | 12 | | | 17 | 19 |
| *1542 | - | | 7 | | | | | 19 | |
| *1543 | - | | 7 | | 12 | | | 19 | |
| *1545 | B62 | 3 | 7 | | | | | 19 | |
| *1546 | B72 | 4 | 7 8 | | 12 | | | 19 | |
| *1548, 9550 | B62 | | 7 | | | | | 19 | |
| *1553 | - | 4 | 8 | | 12 | | | 19 | |
| *1554 | - | | 8 | | 11 12 | | | 19 | |
| *1555 | - | 3 | 7 | | 12 | | | 19 | |
| *1557 | - | | 7 | | 12 | | | 19 | |
| *1562 | - | | 8 | | 11 12 | | | 17 | 19 |
| *1564 | - | | 8 | | 11 12 | | | 19 | |
| *1566 | - | | 7 | | 12 | 14 | | 19 | |
| *1568 | - | 3 | | | 11 12 | | | | |
| *1569 | - | | | 8 | 11 12 | | | 19 | 21 |
| *1573 | - | | 7 | | | | | 19 | |
| *1574 | - | | 8 | | 12 | | | 19 | |
| *1576 | - | | 7 | | 12 | | | w | |
| *1577 | - | | 7 | | | | | 17 | 19 |
| *1580 | - | | | 8 | 12 | 14 | | 17 | 19 |
| *1583 | - | | 7 8 | | | | | 19 | |
| *1585, 9554 | - | | 7 | | 12 | | | 17 | 19 |
| *1586 | - | | 7 | | | | | 19 | |
| *1589 | - | w | 7 | | 12 | | | 17 | 19 |
| *1591, 9531 | - | | | 8 | 11 12 13 | | | 19 | |
| *9501 | - | | 7 | | 12 | | | 19 | |
| *9506 | - | 4 | 7 8 | | 12 | | | 17 | 19 |
| *9516 | - | | 7 | | 12 | | | 19 | |

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|----|----|----|-------|----|----|-------|-----|---------------------|---|
| | | | | | | | 46 | B63 | *15170101-151702, 9562, 9568, 9577 |
| | | | | | | | 47 | B62, B70, B71 | *151801, 151802, 1551, 1552, 1572, 1593, 9508, 9514, 9519, 9534, 9553, 9576 |
| | | | | 43 | | 47 | - | | *151803 |
| | | | 38 | | | 47 | B62 | | *1520, 152501, 152502 |
| | | 33 | | | | 47 | B75 | | *1521, 1544 |
| | | | | | | 46 | - | | *1523, 9515 |
| | | | 38 | | | 45 46 | B62 | | *1524, 1587, 9557 |
| | | | | | | 45 | 47 | B15 | *1528, 9520, 9549N |
| | | | | | | 47 | B15 | | *1529 |
| | | | 38 | | | 45 | 47 | B62, B15 | *1530, 1558, 1563 |
| | | 33 | | | | 47 | B75 | | *1531 |
| | | | 38 | | | 46 | - | | *1536 |
| | | 35 | 38 | 40 | | 47 | - | | *1542 |
| | | | 38 | | | 45 46 | - | | *1543 |
| | | | 38 | | | 45 | 47 | B62 | *1545 |
| | | | 37 38 | | | 45 | 47 | B72 | *1546 |
| | | | 38 | | | 47 | B62 | | *1548, 9550 |
| | | | 37 38 | | | 45 | 47 | - | *1553 |
| | | | 38 | | | 45 | 47 | - | *1554 |
| | | 33 | | | | 47 | - | | *1555 |
| | w | | 38 | | | 45 | 47 | - | *1557 |
| | | | 38 | | | 47 | - | | *1562 |
| | | | 38 | | | 47 | - | | *1564 |
| | | | 38 | | | 45 | 47 | - | *1566 |
| | | | 38 | | | 45 | 47 | - | *1568 |
| | | | 38 | | | 47 | - | | *1569 |
| | | | 38 | 41 | 43 | 45 | 47 | - | *1573 |
| | | | 38 | | | 47 | - | | *1574 |
| 28 | w | | | | | 45 | 47 | - | *1576 |
| | | | 38 | | | 45 | 47 | - | *1577 |
| | | | | | | 47 | - | | *1580 |
| | 30 | | 38 | | | 47 | - | | *1583 |
| | | | 38 | | | 45 | 47 | - | *1585, 9554 |
| | | | 38 40 | | | 47 | - | | *1586 |
| | | 33 | | | | 46 | - | | *1589 |
| | | | 38 | | | 47 | - | | *1591, 9531 |
| 28 | | | 38 | | | 45 | 47 | - | *9501 |
| | | | 37 38 | | | 47 | - | | *9506 |
| 25 | | | 38 | | | 47 | - | | *9516 |

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| *9524 | - | | | 8 | 12 | 14 | 19 | |
| *9537 | - | | | 7 | | | 19 | |
| *9538 | - | 1 | | 7 | 12 | | 19 | |
| *9542 | - | 2 | | 7 | 12 | | 19 | |
| *9543 | - | | | 7 8 | 12 | | 19 | |
| *9544 | - | | | 7 | 12 | | 17 19 | |
| *9561 | - | | | 8 | 12 13 14 | | 19 | |
| *180101-1803, 1805-180701, 1808, 1810, 1811, 1813-1815, 1817N, 1818, 1820, 1821, 1823N-1825, 1827, 1828, 1830-1836, 1838-1840, 1842, 1843, 1845 | B18 | | | | 12 | 15 | 18 | |
| *1804 | - | | | | 12 | 15 | 18 | |
| *180702, 1829, 3532, 3537, 3553N, 3564, 3566, 356801, 356802, 3599 | - | | | | 12 | | 18 | |
| *1809 | - | | | | 12 | 15 | | |
| *1812 | - | | | | 12 | 15 | 18 | |
| *1819 | - | | | | 12 | 15 | 18 | |
| *1822 | - | | | | 12 | 15 | 17 18 | |
| *1826, 1841 | - | | | | | 15 | 18 | |
| *1837 | | | 4 | | 11 12 | | | |
| *1844 | | | | | 12 | 15 | 18 | |
| *2701 | B27 | | | 5 | | | 16 | |
| *2702, 2753, 2757 | B27 | | | 5 | | | 16 | |
| *2703-2706, 2709, 2710, 2713, 2717, 2720, 2727, 2731, 2735-2737, 2745, 2746, 2748-2751, 2754-2756, 2758 | B27 | | | 5 | | | 16 | |
| *2707, 2711, 2714, 2715, 2721, 2728, 2732, 2734, 2738, 2743, 2747 | B27 | | | | | | 16 | |
| *2708, 2726, 2740, 2742, 2744 | B2708 | | | 5 | | | 16 | |
| *2712 | - | | | 5 | | | 16 | |
| *2716, 2739, 2759N | - | | | 5 | | | 16 | |
| *2718 | - | | | 5 | 11 | | 16 | |
| *2719 | - | | | | | | 16 17 | |
| *2723 | - | | | 5 | | | 16 | |

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| 25 | | | w | 38 | | | 45 | 47 | - | | *9524 |
| | | | | 38 | | | | 47 | - | | *9537 |
| | | | | 38 | | | | 47 | - | | *9538 |
| | | | | 38 | | | 45 | 47 | - | | *9542 |
| | | | 37 | | | | 45 | 47 | - | | *9543 |
| | | 33 | | | | | 45 | 47 | - | | *9544 |
| | | | | | | | | 47 | - | | *9561 |
| | | | | | | | | | | | *180101-1803, 1805-180701, 1808, 1810, 1811, 1813-1815, 1817N, 1818, 1820, 1821, 1823N-1825, 1827, 1828, 1830-1836, 1838-1840, 1842, 1843, 1845 |
| | | | | | 40 | | 44 | 47 | - | | *1804 |
| | | | | | | | 44 | 47 | - | | *180702, 1829, 3532, 3537, 3553N, 3564, 3566, 356801, 356802, 3599 |
| | | | | | | | 44 | 46 | - | | *1809 |
| | | | | 38 | | | | 47 | - | | *1812 |
| | | | | | | | 44 | 45 | 47 | - | *1819 |
| | 31 | | | | | | 44 | 47 | - | | *1822 |
| | | | | | | | 44 | 47 | - | | *1826, 1841 |
| | | | | | | | | 47 | | | *1837 |
| | | | | | | | 44 | 47 | | | *1844 |
| 28 | | | | 38 | | | | 46 | B27 | | *2701 |
| 28 | | 32 | 36 | 38 | | | | 46 | B27 | | *2702, 2753, 2757 |
| 28 | | 32 | | 38 | | | | | B27 | | *2703-2706, 2709, 2710, 2713, 2717, 2720, 2727, 2731, 2735-2737, 2745, 2746, 2748-2751, 2754-2756, 2758 |
| 28 | | 32 | | 38 | | | | | B27 | | *2707, 2711, 2714, 2715, 2721, 2728, 2732, 2734, 2738, 2743, 2747 |
| 28 | | 32 | | 38 | | | | 46 | B27 | | *2708, 2726, 2740, 2742, 2744 |
| | | | | 38 | | | | 47 | B2708 | | |
| | | | | 38 | | | | 47 | - | | *2712 |
| | | | | 38 | | | | 46 | - | | *2716, 2739, 2759N |
| | | | | 38 | | | | 47 | - | | *2718 |
| 28 | | 32 | | 38 | | | | 46 | - | | *2719 |
| | | | | | | | | 46 | - | | *2723 |

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| *2724 | - | | | | | 16 | | |
| *2725 | - | | | | | 16 | | |
| *2729 | - | | 5 | | 11 | | 16 | |
| *2730 | - | | | | | 16 | 17 | |
| *2733 | - | | | | | 16 | | |
| *2741 | - | | 5 | | 12 | | 16 | |
| *2752 | - | | 5 | | | | | |
| *350101-350109, 350111-350113, 3507- 350804, 3511, 3515, 352001, 352002, 3523, 3529, 3540N- 3542, 3548, 3550, 3552, 3554, 3557, 3561, 3577, 3578, 3582, 3590-3594 | B35 | | | | 12 | | 17 18 | |
| *350110 | - | | | | 9 | 12 | | 17 18 |
| *350201-350401, 350403, 3506, 351201, 351202, 3533, 3534, 3536, 3539, 3555, 3559, 3565Q, 3570, 3574, 3583-3585, 3595, 3598 | B35 | | | | | | 17 18 | |
| *350402 | - | | | | 9 | | | 17 18 |
| *3505, 3551, 3558, 3572, 3589, 3597 | B35 | 3 | | | 12 | | | 18 |
| *350901, 350902, 3518, 3531, 3575, 3588 | B35 | | | | | | | 18 |
| *3510, 3528, 3569, 3580 | B35 | | | | 12 | | | 17 18 |
| *3513 | B35 | | | | | | | 17 18 |
| *351401, 351402, 3562 | B35 | | | | 12 | | | 17 18 |
| *3516 | B35 | 3 | | | 12 | | | 17 18 |
| *3517, 3530 | B35 | 3 | | | 12 | | | 17 18 |
| *3519 | - | | | | 12 | | | 17 |
| *3521, 3524 | - | | | | 12 | | | 17 18 |
| *3522 | - | 3 | | | | | | 18 |
| *3525, 3549 | - | | | | 12 | | | 17 |
| *3526 | - | | 6 | | 12 | | | 17 |
| *3527 | B35 | | | | 12 | | | 17 |
| *3535 | B35 | | | | 12 | | 17 18 | 21 |
| *3538 | - | | | | | | 17 18 | |

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| 28 | | 32 | 33 | | 38 | | | 46 | - | | *2724 |
| 28 | | 32 | | | 38 | | | 45 | 46 | - | *2725 |
| | | | | | 38 | | | 46 | - | | *2729 |
| 28 | | 32 | | 36 | 38 | | | 46 | - | | *2730 |
| 28 | | 32 | | | 38 | | | 47 | - | | *2733 |
| 28 | | 32 | | | 38 | | | 46 | - | | *2741 |
| 28 | | 32 | | | 38 | | | 46 | - | | *2752 |
| | | | | | | | | 44 | 47 | B35 | *350101-350109, 350111-350113, 3507- 350804, 3511, 3515, 352001, 352002, 3523, 3529, 3540N- 3542, 3548, 3550, 3552, 3554, 3557, 3561, 3577, 3578, 3582, 3590-3594 |
| | | | | | | | | 44 | 47 | - | *350110 |
| | | | | | | | | 44 | 47 | B35 | *350201-350401, 350403, 3506, 351201, 351202, 3533, 3534, 3536, 3539, 3555, 3559, 3565Q, 3570, 3574, 3583-3585, 3595, 3598 |
| | | | | | | | | 44 | 47 | - | *350402 |
| | | | | | | | | 44 | 47 | B35 | *3505, 3551, 3558, 3572, 3589, 3597 |
| | | | | | | | | 44 | 47 | B35 | *350901, 350902, 3518, 3531, 3575, 3588 |
| | | | | | 38 | | | 47 | B35 | | *3510, 3528, 3569, 3580 |
| | | | | | 38 | | | 47 | B35 | | *3513 |
| | | | | | | | | 44 | 45 | 47 | *351401, 351402, 3562 |
| | | | | | 38 | | | 47 | B35 | | *3516 |
| | | | | | | | | 44 | 47 | B35 | *3517, 3530 |
| | | | | | 37 | | | 47 | - | | *3519 |
| | 31 | | | | | | | 44 | 47 | - | *3521, 3524 |
| | | | | | | | | 44 | 47 | - | *3522 |
| | | | | | | | | 47 | - | | *3525, 3549 |
| | | | | | | | | 47 | - | | *3526 |
| | | | | | | | | 44 | 47 | B35 | *3527 |
| | | | | | | | | 44 | 47 | B35 | *3535 |
| 29 | | | | | | | | 44 | 47 | - | *3538 |



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| *3543, 3567, 3579, 3586 | B35 | | | 12 | | 18 | |
| *3544 | - | | | | | 18 | |
| *3545, 3571 | - | | | 12 | 13 | 17 18 | |
| *3546 | B35 | 4 | | 12 | | 17 | |
| *3547 | - | 4 | | 12 | | 17 | |
| *3556 | - | | | | | 17 | |
| *3560 | B35 | | | | | 18 | |
| *3563 | - | 4 | | 12 | | 17 | |
| *3576 | - | | | 12 | | 17 18 | |
| *3581, 3596 | - | | | | | 17 18 | |
| *3587 | - | | 8 | | | 18 | |
| *370101-370103, 370105-370107, 3703N, 3706, 3713, 3715-3719 | B37, Null | | | 13 | | 17 | 20 |
| *370104 | - | | | 13 | | 17 | 20 |
| *3702 | - | | 5 | 13 | | | 20 |
| *3704 | - | | | 13 | | 17 | 20 |
| *3705 | - | | | 13 | | 17 | 20 |
| *3707 | - | 1 | | 13 | | | 20 |
| *3708 | - | | | 13 | | 17 | 20 |
| *3709 | - | | | 13 | | | 20 |
| *3710 | - | | | | | 17 | 20 |
| *3711 | - | | | | | 17 18 | 20 |
| *3712 | - | | 8 | 13 | | | 20 |
| *3714 | - | | | | | 17 | 20 |
| *380101-380202, 3808, 3809, 3811- 3816, 3818, 3819 | B38 | | 5 | | | | 21 22 23 |
| *3803 | B16 | | 5 | 11 | | | 21 22 |
| *3804 | - | | | | | | 21 23 |
| *3805 | - | | 6 | | | | 21 22 23 |
| *3806 | - | | | | | | 21 |
| *3807 | - | | 5 | | | | 21 |
| *3810 | - | | 5 | | | | 22 23 |
| *3817 | - | | 5 | 13 | | 20 | 21 22 23 |
| *3820 | - | | 5 | | | 17 | 21 22 23 |

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| | | | | | 44 | 45 | 47 | B35 | *3543, 3567, 3579, 3586 |
| | | | | | 44 | 45 | 47 | - | *3544 |
| | 29 | | | | 44 | 47 | - | | *3545, 3571 |
| | | 33 | | | | 47 | B35 | | *3546 |
| | | | 37 | | | 47 | - | | *3547 |
| | | | | 40 | 44 | 47 | B35 | | *3556 |
| | | | | 37 38 | | 47 | - | | *3560 |
| | 28 | 32 | | | w | 47 | - | | *3563 |
| | | 31 | | | 44 | 47 | - | | *3576 |
| | 27 | | | | 44 | 47 | - | | *3581, 3596 |
| | | | | | | | | | *3587 |
| | | | | 38 | | 46 | B37, Null | | *370101-370103, 370105-370107, 3703N, 3706, 3713, 3715-3719 |
| | 29 | | | 38 39 | | 46 | - | | *370104 |
| | | | | 38 | | 46 | - | | *3702 |
| | 29 | 31 | | 38 | | 46 | - | | *3704 |
| | 29 | | | 38 | | 47 | - | | *3705 |
| | | | | 38 | | 46 | - | | *3707 |
| | 29 | | | | 44 | 46 | - | | *3708 |
| | | | | 38 | | 46 | - | | *3709 |
| | 29 | | | 38 | | 46 | - | | *3710 |
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| | 29 | | | 38 | | 46 | - | | *3712 |
| | 29 | | | 38 | | 46 w | - | | *3714 |
| | | | | | | 46 | B38 | | *380101-380202, 3808, 3809, 3811- 3816, 3818, 3819 |
| | | | | 38 | | 46 | B16 | | *3803 |
| | | | | 38 | | 46 | - | | *3804 |
| | | | | | | 46 | - | | *3805 |
| | | | | | | 44 | 46 | | *3806 |
| | | | | | | 44 | 46 | | *3807 |
| | | | | | | | 46 | | *3810 |
| | | | | | | | 46 | | *3817 |
| | | | | | | | 46 | | *3820 |

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|---|-------------------|-----|--|----|----|----|----|----|----|
| *39010101, 39010102L, 390103- 390108, 390110, 3903, 3905-390602, 3909, 3911, 3914, 3915, 3924, 3926- 3929, 3931, 3935, 3937, 3938Q, 3940N, 3941, 3944, 3946, 3948, 3951-3954 | B390 1, B39 | 5 | | | | | 21 | 23 | 24 |
| *390109, 3912, 3945 | B39 | | | | | | 21 | 23 | 24 |
| *390201, 3908 | B390 2, B39 | 5 | | 11 | | | 21 | | 24 |
| *390202, 391301, 391302, 3923, 3949 | B390 2, B39 | | | 11 | | | 21 | | 24 |
| *3904 | - | 6 | | | | | 21 | 23 | 24 |
| *3907 | - | ? ? | | 12 | | | 21 | 23 | 24 |
| *3910, 3916, 3920 | B39 | | | | | | 21 | | 24 |
| *3917 | - | | | | | | 21 | | 24 |
| *3918 | - | 5 | | | | | 21 | 23 | 24 |
| *391901 | - | | | | | 18 | 21 | 23 | 24 |
| *391902 | - | 5 | | | | 18 | 21 | 23 | 24 |
| *3922 | - | 5 | | | | | 21 | 23 | 24 |
| *3936 | - | 5 | | | | | | 23 | 24 |
| *3939 | - | 5 | | 11 | | | 21 | | 24 |
| *3942 | - | 5 | | | | 17 | 21 | 23 | 24 |
| *3943 | - | 5 | | 12 | | | | 23 | 24 |
| *400101-400106, 400108, 4007, 4051, 4066, 4073, 4079 | B60, B40 | 4 | | | | | | | 24 |
| *400107, 407201, 407202, 4077 | B61, B40 | 4 | | | | | | | 24 |
| *400201-400207, 4004, 40060101- 400602, 4039, 4040, 4070, 4089, 4097 | B61 | | | | | | | | |
| *4003, 4020 | B61 | | | | 12 | | | | |
| *4005 | B4005 | 3 | | | | | | | |
| *4008 | - | | | | | | | | |

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| *4009, 4011, 4018, 4024, 4027, 4029, 4035, 4037, 4044, 4050, 4056, 4057, 4064, 4075, 4078, 4082, 4085, 4086, 4090, 4091 | B61, B40 | | | | | | | | ? |
| *4010, 4022N, 4033, 4036, 4042, 4043, 4049, 4054, 4055, 4061-4063, 4065, 4067, 4081, 4084, 4087, 4088, 4092 | Null, B40, B60 | | 4 | | | | | | ? |
| *4012 | - | | | 8 | 11 | | | 19 | |
| *4013, 4019 | - | | | | | | | | |
| *401401-401403, 4030, 4034, 4053 | - | | 4 | | | | | | ? |
| *4015, 4032 | B61 | 1 | 4 | | | | | | ? |
| *4016 | B61 | 1 | 4 | | | | | | 24 |
| *4021 | - | | | | | | | | ? |
| *4023 | - | 1 | 4 | | | | | | 24 |
| *4025, 4069 | - | | 4 | | | | | | ? |
| *4026 | B21 | | | 9 | | | | | ? |
| *4028 | - | | | 9 | | | 17 | | ? |
| *4031, 4045, 4080 | - | | 4 | | | | | | ? |
| *4038, 4052 | - | | 4 | | 12 | | | | ? |
| *4046 | - | | | | 11 | | 16 | | ? |
| *4047 | - | | 4 | | | | | | |
| *4048 | - | | 4 | | 10 | | | | ? |
| *4058 | - | | 4 | | | | | | ? |
| *4059 | - | | 4 | | | 12 | | | 24 |
| *4060 | - | | 4 | | | 12 | | | 24 |
| *4068 | - | | | | | | | | ? |
| *4071 | - | | 3 | | | | | | ? |
| *4074 | - | | | | | | | | ? |
| *4076 | - | | 4 | | | | | | |
| *4083 | - | | | | | | | | ? |
| *4093 | - | | | | 11 | | 16 | | ? |
| *4094 | - | | | | | | | | |
| *4095 | - | | | | | | | | ? |
| *4096 | - | | | | | | | | |
| *4098 | - | 1 | | | | | | | ? |
| *4101, 4106, 4107, 4112 | B41 | | 4 | 8 | | | | | 24 |
| *410201-410302, 4111 | B41 | | 4 | 8 | | | | | 24 |

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| 26 | | | | 37 38 | | | 47 | B61, B40 | *4009, 4011, 4018, 4024, 4027, 4029, 4035, 4037, 4044, 4050, 4056, 4057, 4064, 4075, 4078, 4082, 4085, 4086, 4090, 4091 |
| 25 | | | | 37 38 | | | 47 | Null, B40, B60 | *4010, 4022N, 4033, 4036, 4042, 4043, 4049, 4054, 4055, 4061-4063, 4065, 4067, 4081, 4084, 4087, 4088, 4092 |
| 25 | | | | 38 | | | 47 | - | *4012 |
| 26 | | 34 | 36 | 38 | | | 46 | - | *4013, 4019 |
| | | | | 37 38 | | | 47 | - | *401401-401403, 4030, 4034, 4053 |
| | | | | 37 38 | | | 47 | B61 | *4015, 4032 |
| | | | | 37 38 | | | 47 | B61 | *4016 |
| 25 | | | | 38 | | | 47 | - | *4021 |
| 25 | | | | 37 38 | | | 47 | - | *4023 |
| 25 | | | | 37 | | | 47 | - | *4025, 4069 |
| 26 | | | | 37 38 | | | 47 | B21 | *4026 |
| 26 | 31 | | | 37 38 | | | 47 | - | *4028 |
| | | 33 | | 37 38 | | | 47 | - | *4031, 4045, 4080 |
| 25 | | | | 37 38 | | | 47 | - | *4038, 4052 |
| 25 | | | | 38 | | | 47 | - | *4046 |
| 25 | | | | 38 | | | 46 | - | *4047 |
| 25 | | | | 37 38 | | 43 | 47 | - | *4048 |
| | | | | 37 38 | 40 | | 47 | - | *4058 |
| | | | | 37 38 | | | 47 | - | *4059 |
| 25 | | | | 37 38 | | | 47 | - | *4060 |
| 26 | | | | 37 | | | 47 | - | *4068 |
| 26 | | | | 37 38 | | 41 43 | 47 | - | *4071 |
| 25 | 26 | | | 37 38 | | | 47 | - | *4074 |
| 25 | | | | 38 | | | | - | *4076 |
| | | | | 37 38 | | | 47 | - | *4083 |
| | | | | 38 | | | 47 | - | *4093 |
| 26 | | | | 37 38 39 | | | 47 | - | *4094 |
| 26 | | | 35 | 37 38 | | | 47 | - | *4095 |
| 26 | | | | 38 | | | 46 | - | *4096 |
| 26 | | | | 37 38 | | | 47 | - | *4098 |
| 27 | 30 | | | 37 38 | | | 47 | B41 | *4101, 4106, 4107, 4112 |
| 27 | | | | 37 38 | | | 47 | B41 | *410201-410302, 4111 |

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| *4104, 4110 | - | 4 | | | | | | | 24 |
| *4105 | - | 4 | | 8 | | | | | 24 |
| *4108 | - | 1 | 4 | 8 | | 14 | | | 24 |
| *4109, 4502, 4503 | - | 4 | | 8 | | | | | 24 |
| *420101-4202, 4206, 4210, 4212 | B42 | | | 8 | | | | | 24 |
| *4204 | - | | | 8 | | | | | 24 |
| *420501, 420502 | - | 1 | | 8 | | 14 | | | 24 |
| *4208 | - | | | 8 | | | | | 24 |
| *4209 | - | | | | 12 | | | | 24 |
| *4211 | - | | | 8 | 11 | | | | 24 |
| *4213 | - | | | 8 | | | | | 24 |
| *44020101-440210, 4411, 4416, 4419N, 4421-4424, 4427, 4433, 4434, 4448, 4452N, 4455, 4459, 4463, 4466-4468, 4471-4474, 4480, 4484, 4486, 4487 | B44, B47, Null | 4 | | | | | | 17 | |
| *440301-440306, 440308-4405, 4413, 4426, 442801-4430, 4432, 4435, 4436, 4438, 4439, 4442, 4445, 4451, 4456N, 4458N, 4461N, 4469, 4470, 4476-4479, 4482, 4485, 4488 | B44 | 4 | | | | | | 17 | |
| *440307, 4407, 4481 | B44 | | | | | | | 17 | |
| *4406 | B44 | | | | | | | 17 | |
| *4408 | B44 | w | | | | | | 17 | |
| *4409 | B12 | 4 | | | | | | 17 | |
| *4410 | - | 4 | | | 11 | | | 17 | 19 |
| *4412 | - | 4 | | | | | | 17 | |
| *4414 | - | 4 | | 8 | | | | 17 | |
| *4415 | - | 4 | | 8 | 11 | | | | |
| *4417, 4443 | - | 4 | | | 12 | 13 | | 17 | |
| *4418 | - | 4 | | 8 | 11 | | | | |
| *4420 | - | 4 | | 8 | | | | | |
| *4425, 4450 | - | 4 | | | | | | 17 | |
| *4431 | - | 4 | | | | | | | |
| *4437, 446401, 446402 | - | 4 | | | | | | 17 | |
| *4440 | - | | | | 11 | | | 16 | 17 |
| *4441, 4453 | - | 4 | | | | | | | |

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| 27 | | | | 37 38 | | | 47 | - | *4104, 4110 | |
| 27 | 30 | | | ? 38 | | | 47 | - | *4105 | |
| 27 | | | | 37 38 | | | 47 | - | *4108 | |
| | 30 | | | 37 38 | | | 47 | - | *4109, 4502, 4503 | |
| 27 28 | | | | | | | 47 | B42 | *420101-4202, 4206, 4210, 4212 | |
| 27 28 | 30 | | | | | | 47 | - | *4204 | |
| 27 28 | | | | | | | 47 | - | *420501, 420502 | |
| 28 | | | | | | | 47 | - | *4208 | |
| 27 28 | | | | | | | 47 | - | *4209 | |
| 27 | | | | 38 | | | 47 | - | *4211 | |
| 27 28 29 | | | | | | | 47 | - | *4213 | |
| | 29 | | | 38 39 | | | 46 | B44, B47, Null | *44020101-440210, 4411, 4416, 4419N, 4421-4424, 4427, 4433, 4434, 4448, 4452N, 4455, 4459, 4463, 4466-4468, 4471-4474, 4480, 4484, 4486, 4487 | |
| | 29 | | | 38 | | | 46 | B44 | *440301-440306, 440308-4405, 4413, 4426, 442801-4430, 4432, 4435, 4436, 4438, 4439, 4442, 4445, 4451, 4456N, 4458N, 4461N, 4469, 4470, 4476-4479, 4482, 4485, 4488 | |
| | 29 | | | 38 | | | 46 | B44 | *440307, 4407, 4481 | |
| 29 30 | | 36 | | 39 | | | 44 | 46 | B44 | *4406 |
| 29 | | | | 38 39 | | | 46 | B44 | *4408 | |
| 29 | | | 37 38 39 | | | | 47 | B12 | *4409 | |
| 29 | | | 38 | 41 | | | 46 | - | *4410 | |
| 29 | | | | 39 | | | 46 | - | *4412 | |
| 29 | | | | 38 | | | 46 | - | *4414 | |
| 30 | | | | 38 | 41 | | 46 | - | *4415 | |
| 29 | | | | 38 | | | 46 | - | *4417, 4443 | |
| 30 | | 34 | | 38 | 41 | | 46 | - | *4418 | |
| 29 30 | | | | 38 39 | | | 46 | - | *4420 | |
| 29 | | 34 36 | | 38 | | | 46 | - | *4425, 4450 | |
| 25 | 29 | | | 38 | | | 46 | - | *4431 | |
| | | | | 38 | | | 46 | - | *4437, 446401, 446402 | |
| | 29 | | | 38 | | | 46 | - | *4440 | |
| | 29 | | | 38 39 | | | 46 | - | *4441, 4453 | |

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| *4444 | - | | | | 11 | | 16 | 17 | | | |
| *4446, 4475 | - | | 4 | | | | | 17 | | | |
| *4447, 4465 | - | | 4 | | | | | | | | |
| *4449 | - | 2 | 4 | | | | | 17 | | | |
| *4454 | - | 3 | 4 | | | | | | | | |
| *4457 | - | w | | | | | | 17 | | | |
| *4460 | - | 3 | 4 | | | | | 17 | | | |
| *4462 | - | | 4 | 8 | 9 | | | 17 | | | |
| *4483 | - | | | | | | | 17 | | | |
| *4501, 4505, 4507 | B45 | | 4 | 8 | 11 | | | | | | 24 |
| *4504 | - | | 4 | 8 | | | | | | | 24 |
| *4506 | - | | 4 | 8 | 11 | | | | | | 24 |
| *4508 | - | | 4 | 8 | | | | | | | 24 |
| *4509 | - | | 4 | 8 | | 12 | 13 | | | | 24 |
| *4510 | - | | 4 | 8 | 10 | | | | | | 24 |
| *460101, 460102, 4604, 4605, 4607N, 4609, 4610, 4614- 4616, 4622 | B46 | | | 7 | | 12 | | | | | |
| *4602 | - | | | 7 | | 12 | | | | | |
| *4603, 4608, 461301, 461302, 4619, 4621 | - | | | 7 | | 12 | | | | | |
| *4606 | - | | | 7 | | 12 | | | | | |
| *4611 | - | | | 7 | | | | | | | |
| *4612, 4620 | - | 3 | | 7 | | 12 | | | | | |
| *4617 | - | | | 7 | | 12 | 13 | | | | |
| *4618 | - | | | 7 | | | | | | | |
| *47010101, 47010102 | B47 | | 4 | | | | | | | | |
| *4702 | - | | 4 | | | | | | | | |
| *4703 | - | | 4 | | | | | | | | |
| *4704, 4705 | - | | 4 | 5 | | | | | | | |
| *480101, 480102, 4804, 4807, 4809, 4811, 4819, 4820 | B48 | | | | | 11 | | | | | 24 |
| *4802 | - | | | | | 11 | 12 | | 17 | | 24 |
| *480301, 480302 | B48 | | | | | 11 | | | | | 24 |
| *4805, 4808 | B48 | 1 | | | | 11 | | | | | 24 |
| *4806 | - | | | | | | | | | | 24 |
| *4810, 4812, 4813, 4817 | - | | | | | 11 | | | | | 24 |
| *4814 | - | | | | | 11 | 12 | | | | 24 |
| *4815 | - | 1 | | | | 11 | | | | | 24 |
| *4816 | - | | | | | 11 | | | | | 24 |
| *4818 | - | | | | | 11 | | | | | |

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| | 29 | | | 38 39 | | 46 | - | *4444 |
| | 29 | | | 37 38 | | 47 | - | *4446, 4475 |
| | 29 | | | 38 | | 46 | - | *4447, 4465 |
| | 29 | | | 38 39 | | 46 | - | *4449 |
| | 29 | | | 38 | | 46 | - | *4454 |
| | 29 | | | 38 | | 46 | - | *4457 |
| | 29 | | | 38 | | 46 | - | *4460 |
| | 29 | | | 38 | | 46 | - | *4462 |
| | 29 | | | 38 39 | | 46 | - | *4483 |
| | 30 | | | 37 38 | 41 | 47 | B45 | *4501, 4505, 4507 |
| | 30 | | | 37 38 | 41 | 47 | - | *4504 |
| 28 | 30 | | | 37 38 | 41 | 47 | - | *4506 |
| | 30 | | | 37 38 | 40 | 47 | - | *4508 |
| | 30 | | | 37 38 | | 47 | - | *4509 |
| | 30 | | | 37 38 | | 47 | - | *4510 |
| | 28 | 31 | | | | 45 | 47 | B46 |
| | w | 31 | | | | 45 | 47 | - |
| | 28 | 31 | | | | 47 | - | *4602 |
| 25 | 28 | 31 | | | | 47 | - | *4603, 4608, 461301, 461302, 4619, 4621 |
| | 28 | 31 | | | 41 | 47 | - | *4606 |
| | 28 | 31 | | | | 47 | - | *4611 |
| | 28 | 31 | | | | 45 | 47 | *4612, 4620 |
| | 28 | 31 | | | | 45 | 47 | *4617 |
| | 28 | 31 | | | 40 | 47 | - | *4618 |
| | | 32 | | 38 | | 46 | B47 | *47010101, 47010102 |
| | | 32 | | 37 38 | | 47 | - | *4702 |
| | | 32 | w | 38 | | 46 | w | - |
| | | | | 38 | | 46 | - | *4704, 4705 |
| | | 33 | | 38 | | 47 | B48 | *480101, 480102, 4804, 4807, 4809, 4811, 4819, 4820 |
| 25 | | | | 38 | | 47 | - | *4802 |
| | | | | 38 | | 47 | B48 | *480301, 480302 |
| | | | | 38 | | 47 | B48 | *4805, 4808 |
| | | 33 | | 38 | | 47 | - | *4806 |
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| | | | | 38 | | 47 | - | *4814 |
| | | 33 | | 38 | | 47 | - | *4815 |
| | | 33 | | | | 47 | - | *4816 |
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| *490101, 4906 | B49 | 4 | | | | | | |
| *490102 | - | 4 | | | | | | |
| *4902 | - | 4 | | | | | | |
| *4903 | - | | | | | | | |
| *4904, 4905 | - | 4 | | 12 | | | | |
| *4907 | - | 4 | | 10 | | | | |
| *500101, 500102, 5004, 5005, 5008 | B50 | 4 | | | | | | 24 |
| *5002 | B45 | 4 | | 11 | | | | 24 |
| *5006 | - | 4 | | | | | | 24 |
| *5007 | - | | | 11 | | | | 24 |
| *5009 | - | 4 | | | | | | 24 |
| *510101, 510103, 510105-510108, 510110-510201, 510203, 5103, 5107, 510901, 5111N, 5112, 511302, 5114, 5117- 5119, 5122, 5123, 5126-5130, 5132, 5133, 5138-5141N, 5143, 5148-5153, 5155, 5157, 5158, 5160, 5165-5167, 5169-5177, 5179, 5180, 5183, 5184 | B51, B510 2, B510 3, Null | | 9 | | | | | |
| *510102, 510109, 510202, 5105, 510902 | B51 | | | 9 | | | | |
| *510104, 510204, 511301, 5116, 5121, 512401, 512402, 5131, 5134, 5135, 5182 | B51, B52 | | | | | | | |
| *5104, 5146, 5156 | B51 | | | 9 | | | 17 | |
| *5106, 5159 | B51 | | | 9 | | | | |
| *5108, 5120, 5144N | B51 | | | 8 | 9 | | | |
| *5110, 5181 | - | | | | | | | |
| *5115 | - | | | | | | | |
| *5136 | - | | | 8 | | | | |
| *5137, 5163 | - | | | 9 | 12 | | | |
| *5142 | - | | | | | | 17 | |
| *5145 | - | | | | 12 | | | |
| *5154, 5178 | - | | | 9 | | | | |
| *5161 | - | | | 9 | | | | |

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| | | 34 35 | 38 | 41 | 46 | B49 | *490101, 4906 | |
| | | 34 | 38 | 41 | 46 | - | *490102 | |
| | | 35 | 38 | 41 | 46 | - | *4902 | |
| | | 35 | 38 | 41 | 46 | - | *4903 | |
| | | 34 35 | 38 | | 46 | - | *4904, 4905 | |
| | | 34 35 | 38 | | 46 | - | *4907 | |
| | | 35 | 37 38 | 41 | 47 | B50 | *500101, 500102, 5004, 5005, 5008 | |
| | | 35 | 37 38 | 41 | 47 | B45 | *5002 | |
| | | 35 | 38 | 41 | 47 | - | *5006 | |
| | | 35 | 37 38 | 41 | 47 | - | *5007 | |
| | | 35 | 37 38 | | 47 | - | *5009 | |
| | 30 | 35 36 | | | 44 | B51, B510 2, B510 3, Null | *510101, 510103, 510105-510108, 510110-510201, 510203, 5103, 5107, 510901, 5111N, 5112, 511302, 5114, 5117- 5119, 5122, 5123, 5126-5130, 5132, 5133, 5138-5141N, 5143, 5148-5153, 5155, 5157, 5158, 5160, 5165-5167, 5169-5177, 5179, 5180, 5183, 5184 | |
| | | 35 36 | | | 44 | 46 | B51 | *510102, 510109, 510202, 5105, 510902 |
| | 30 | 35 36 | | | 44 | 46 | B51, B52 | *510104, 510204, 511301, 5116, 5121, 512401, 512402, 5131, 5134, 5135, 5182 |
| | 30 31 | 36 | | | 44 | 46 | B51 | *5104, 5146, 5156 |
| | 30 | 36 | | | 44 | 46 | B51 | *5106, 5159 |
| | 30 | 35 36 | | | 44 | 46 | B51 | *5108, 5120, 5144N |
| | 30 | 36 | | | 44 | 46 | - | *5110, 5181 |
| | | 36 | | 41 | 44 | 46 | - | *5115 |
| | 30 | 35 36 | | | 44 | 46 | - | *5136 |
| | 30 | 35 36 | | | 44 | 46 | - | *5137, 5163 |
| | 29 30 | 36 | | | 44 | 46 | - | *5142 |
| | 30 | 36 | | | 44 | 46 | - | *5145 |
| | | 35 | | | 44 | 46 | - | *5154, 5178 |
| | 30 | w 36 | | | 44 45 46 | - | *5161 | |

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| *5162 | - | | | | | | | |
|--|-------------|---|--|---|----|--|----|--|
| *5164 | - | 3 | | 9 | | | | |
| *5168 | - | 2 | | 9 | | | | |
| *520101, 520103, 5204, 5205, 5207, 5210-5213, 5215 | B52 | | | 9 | | | | |
| *520102, 520104, 5202, 5203, 520601, 520602, 5209 | B52 | | | 9 | | | | |
| *520105, 5208, 5214 | - | | | | | | | |
| *5216 | - | | | 9 | 11 | | | |
| *530101-530105, 5305, 5308, 5310, 5315, 5316, 5318 | B53 | | | | 12 | | 17 | |
| *5302 | B53 | | | | 12 | | 17 | |
| *5303, 5309, 5311- 5313 | - | | | | 12 | | 17 | |
| *5304, 5307, 5319 | - | | | | | | 17 | |
| *5306 | B53 | | | | 12 | | 17 | |
| *5314 | - | 3 | | | 12 | | | |
| *5317 | - | | | | 12 | | 17 | |
| *5401, 5402, 5405N, 5407, 5408N, 5410, 5413, 5416-5419 | B54 | | | | | | | |
| *5403 | - | | | | | | | |
| *5404, 5411, 5415 | - | | | | | | | |
| *5406 | - | | | | 12 | | | |
| *5409, 5414 | - | | | | 12 | | | |
| *5412 | - | | | | | | | |
| *550101-550106, 5503, 5505, 5511, 5515, 5525, 5529, 5531, 5533, 5536, 5538 | B55 | | | | | | | |
| *550201-550205, 5507, 5510, 5512, 5516, 5519, 5526, 5530, 5537 | B54, B55 | | | | | | | |
| *5504, 5508, 5513, 5527, 5615, 5619N, 5622 | B55 | | | | | | | |
| *5509, 5524 | - | | | | 10 | | | |
| *5514 | - | | | | 12 | | 17 | |
| *5517, 5528 | - | | | | | | | |
| *5518 | - | | | | 11 | | | |
| *5520 | - | | | 8 | | | | |

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| | 30 | | 36 | | 41 | 43 | 44 | 46 | - | *5162 |
| | 30 | | 36 | | | 44 | 46 | | - | *5164 |
| | 30 | | 35 36 | | | 44 | 46 | | - | *5168 |
| | | | 35 36 | 38 | | | | 46 | B52 | *520101, 520103, 5204, 5205, 5207, 5210-5213, 5215 |
| | 30 | | 35 36 | 38 | | | | 46 | B52 | *520102, 520104, 5202, 5203, 520601, 520602, 5209 |
| | | | 35 36 | 38 | | | | 46 | - | *520105, 5208, 5214 |
| | | | 35 36 | 38 | | | | 46 | - | *5216 |
| | | | 36 | | | 44 | 46 | | B53 | *530101-530105, 5305, 5308, 5310, 5315, 5316, 5318 |
| | 31 | | 36 | | | 44 | 46 | | B53 | *5302 |
| | | | 36 | | | 44 | 46 | | - | *5303, 5309, 5311- 5313 |
| | 30 31 | | 36 | | | 44 | 46 | | B53 | *5304, 5307, 5319 |
| | | | 36 | | | 44 | 46 | | - | *5306 |
| | | | 36 | | | 44 | 46 | | - | *5314 |
| | | | 36 | 38 | | | | 46 | - | *5317 |
| | 28 | 32 | | 39 40 | | | | 47 | B54 | *5401, 5402, 5405N, 5407, 5408N, 5410, 5413, 5416-5419 |
| | 28 | 32 | | 39 | 41 | | | 47 | - | *5403 |
| | 28 | 32 | | 39 | | | | 47 | - | *5404, 5411, 5415 |
| | 28 | 32 | | 39 | | | 45 | 47 | - | *5406 |
| | 28 | 32 | | 39 | | | | 47 | - | *5409, 5414 |
| | 28 | 32 | 34 | 39 40 | | | | 46 | - | *5412 |
| | 28 | 32 | 35 | | 40 | | | 47 | B55 | *550101-550106, 5503, 5505, 5511, 5515, 5525, 5529, 5531, 5533, 5536, 5538 |
| | 28 | 32 | | 40 | | | | 47 | B54, B55 | *550201-550205, 5507, 5510, 5512, 5516, 5519, 5526, 5530, 5537 |
| | 28 | 32 | | | | | | 47 | B55 | *5504, 5508, 5513, 5527, 5615, 5619N, 5622 |
| | 28 | 32 | 35 | | | | | 47 | - | *5509, 5524 |
| | 28 | 32 | | | 42 | | | 47 | - | *5514 |
| | 28 | 32 | 35 | | | | | 47 | - | *5517, 5528 |
| | | | | 38 40 | | | | 47 | - | *5518 |
| 27 | 28 | 30 | 32 | | | | | 47 | - | *5520 |

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| *5521 | - | | | | 10 | | | |
| *5522 | - | | | | 12 | | | |
| *5523, 5532, 5618 | - | | | | | | | |
| *5534 | - | | | | | | | |
| *5535 | - | | | | | | | |
| *560101, 560102, 5608, 5614, 5616, 5620, 5624, 5626 | B56 | | | | | | | |
| *5602, 5604 | B56 | | | | | | | |
| *5603 | B22 | | | | 12 | | | |
| *560501 | - | | | | 9 | | | |
| *560502 | - | | | | 9 | | | |
| *5606 | B78 | | | | 9 | | | 18 |
| *5607 | - | | | | | | | |
| *5609 | - | | | | | 12 | | 17 |
| *5610 | - | | | | | | | |
| *5611, 5612 | - | | | | | | | 17 |
| *5613 | - | | | | 8 | | | |
| *5617 | - | | | | | | | |
| *5621 | - | | | | 9 | | | |
| *5623 | - | | | | | | | |
| *5625 | - | | | | | | | |
| *570101-570104, 5706, 5708, 5710, 5715, 5718, 5719, 5722, 5723, 5725, 5726 | B57 | | | | 12 | | | 17 |
| *570105, 5711, 5713, 5721 | B57 | | | | 12 | | | |
| *5702-5705, 5717 | - | | | | | | | 17 |
| *5707 | - | | | | | | | 17 |
| *5709 | - | | | | 8 | | | 17 |
| *5712 | - | | | | | | | 17 |
| *5714 | - | | | | | 12 | | 17 |
| *5716, 5720 | - | | | | | 12 | | 17 |
| *5724 | - | | | | | 12 | | 17 |
| *580101, 580102, 5804, 5805, 5810N- 5815, 5819, 5821- 5824 | B58 | | | | 12 | | | 17 |
| *580103, 5802, 5806, 5816 | B58 | | | | 12 | | | |
| *5807 | - | | | | | 12 | 13 | |
| *5808 | - | | | | 9 | | | |
| *5809 | - | | | | | 12 | | 17 |
| *5817N | - | | | | | 12 | | 17 |

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| | 28 | | 32 | w | | 40 | | 45 | 47 | - | *5521 | |
| | 28 | | 32 | | | | | | 47 | - | *5522 | |
| | 28 | | 32 | | | | | | 47 | - | *5523, 5532, 5618 | |
| | 28 | | 32 | | 38 | 40 | | | 47 | - | *5534 | |
| | 28 | | 32 | w | | 40 | | | 47 | - | *5535 | |
| | 28 | | 32 | | | | 41 | | | 47 | B56 | *560101, 560102, 5608, 5614, 5616, 5620, 5624, 5626 |
| | 28 | | 32 | | | | 41 | 43 | | 47 | B56 | *5602, 5604 |
| | 28 | | 32 | | | | | 45 | 47 | B22 | | *5603 |
| | 28 | | 32 | 35 | | 40 | | | | 47 | - | *560501 |
| | 28 | | 32 | 35 | | | | | | 47 | - | *560502 |
| | 28 | | 32 | 35 | | 40 | w | | 47 | B78 | | *5606 |
| | 28 | | 32 | | | 41 | | | 46 | | - | *5607 |
| | 28 | | 32 | | | | | | 47 | | - | *5609 |
| | 28 | | 32 | | | 40 | 43 | | 47 | | - | *5610 |
| | 28 | | 32 | | | | | | 47 | | - | *5611, 5612 |
| | 28 | 30 | 32 | | | 41 | | | 47 | | - | *5613 |
| | | | | | | 41 | | | 47 | | - | *5617 |
| | 28 | | 32 | 34 35 | | | | | 46 | | - | *5621 |
| | | | | | | 40 | | | 47 | | - | *5623 |
| | 28 | | 32 | 35 | | | 41 | | | 47 | | *5625 |
| | | | | | 36 | | 42 | | 46 | B57 | | *570101-570104, 5706, 5708, 5710, 5715, 5718, 5719, 5722, 5723, 5725, 5726 |
| | | | | | 36 | | 42 | | 46 | B57 | | *570105, 5711, 5713, 5721 |
| | | | | | 36 | | 42 | | 46 | | - | *5702-5705, 5717 |
| | 29 | | | | 36 | | 42 | | 46 | | - | *5707 |
| | 29 | | | | 36 | | 42 | | 46 | | - | *5709 |
| | | | 31 | | 36 | | 42 | | 47 | | - | *5712 |
| | | | | | 36 | | 42 | | 46 | | - | *5714 |
| | | | | | 36 | | | | 46 | | - | *5716, 5720 |
| | 29 | | | | 36 | | 42 | | 46 | | - | *5724 |
| | | | | | 36 | | | 43 | | B58 | | *580101, 580102, 5804, 5805, 5810N- 5815, 5819, 5821- 5824 |
| | | | | | 36 | | | 43 | | B58 | | *580103, 5802, 5806, 5816 |
| | | | | | 36 | | | 43 | | | - | *5807 |
| | | 30 | | 35 36 | | | 43 | | 46 | | - | *5808 |
| | | | 31 | | 36 | | 43 | | 46 | | - | *5809 |
| | | | | | | | 43 | | 46 | | - | *5817N |

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| *5818 | - | 3 | | 12 | | | | | | | | | | | | | | | | | | | | | |
| *5820 | - | | | | | | | | | | | | | | | | | | | | | 21 | | | |
| *5901, 5905 | B59 | | | | | | | | | | | | | | | | | | | | | | | | |
| *5902, 5903 | - | | | | | | | | | | | | | | | | | | | | | | | | |
| *5904 | - | | | | | | | | | | | | | | | | | | | | | | | | |
| *670101 | B67 | | 5 | | | | | | | | | | | | | | | | | | 21 | 24 | | | |
| *670102 | B67 | | | | | | | | | | | | | | | | | | | | 21 | 24 | | | |
| *6702 | - | | | | | | | | | | | | | | | | | | | | 21 | 24 | | | |
| *7301 | B73 | | | | | | | | | | | | | | | | | | | | | 24 | | | |
| *7801, 780202, 7803 | B78 | | | 9 | | | | | | | | | | | | | | | | 18 | | | | | |
| *780201, 7804 | B78 | | | 9 | | | | | | | | | | | | | | | | 18 | | | | | |
| *7805 | - | | | 9 | | | | | | | | | | | | | | | | 18 | | | | | |
| *7806 | - | | | 9 | | | | | | | | | | | | | | | | | | | | | |
| *8101 | B81 | | | | | | | | | | | | | | | | | | | | | | | | |
| *8102 | - | | | | | | | | | | | | | | | | | | | | | 24 | | | |
| *8103, 8104N | - | | | | | | | | | | | | | | | | | | | | | | | | |
| *8201, 8202 | - | | 8 | | 11 | | | | | | | | | | | | | | 19 | | | | | | |
| *8301 | - | | | | | | | | | | | | | | | | | | 17 | | | | | | |
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | |
| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| Cw*0130 | | | | | | 4 | | | | | | | | | | | | | | | | | | | |
| Cw*0206 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cw*0223 | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Cw*0305, 0325, 0327 | | | | 3 | | | | | | | | | | | | | | | | | | | | | |
| Cw*0312, 0319 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cw*0620 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cw*0746 | | | | | | | | 8 | | | | | | | | | | | | | | | | | |
| Cw*150204 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

¹The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 1070 base pairs, for most wells, or a band of 800 base pairs, for some wells.

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-B low resolution typing.

In addition, wells number 5, 6, 10, 17, 20, 21, 30, 35 and 42 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

²The nucleotide position, in the 1st, 2nd or 3rd exon or in the 1st intron, matching the specificity-determining 3'-end of the primer is given. Nucleotide numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

³The nucleotide position, in the 2nd, or 3rd exon or the 1st or 3rd introns, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Nucleotide numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

Lot No.: 63G

Lot-specific information

www.olerup-ssp.com

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|-----|-----|---------------------|-------|----|----|----|----|----|----|----|----|-------------------|---------------------------|---------------------|--|--|
| | | | | 36 | | | 43 | | 46 | | - | | *5818 | | | | | | | | | | | | | | |
| | | | | 36 | | | 43 | | 46 | | - | | *5820 | | | | | | | | | | | | | | |
| | | | | 34 | | | 40 | | 46 | | B59 | | *5901, 5905 | | | | | | | | | | | | | | |
| | | | | 34 | | | | | 46 | | - | | *5902, 5903 | | | | | | | | | | | | | | |
| | | | | 34 | | | 41 | | 46 | | - | | *5904 | | | | | | | | | | | | | | |
| | 28 | | | | | | | | | 47 | B67 | | *670101 | | | | | | | | | | | | | | |
| | 28 | | | | | | | | | 47 | B67 | | *670102 | | | | | | | | | | | | | | |
| | w | | | | | | | | | 47 | - | | *6702 | | | | | | | | | | | | | | |
| | 28 | | | | | | | | | 45 | 47 | B73 | | *7301 | | | | | | | | | | | | | |
| | | | | 35 | | | 40 | | 44 | | 47 | B78 | *7801, 780202, 7803 | | | | | | | | | | | | | | |
| | | | | 35 | | | | | 44 | | 47 | B78 | *780201, 7804 | | | | | | | | | | | | | | |
| | | | | 35 | 38 | | | | | 47 | - | | *7805 | | | | | | | | | | | | | | |
| | | | | 35 | 38 | | | | | 47 | - | | *7806 | | | | | | | | | | | | | | |
| | 28 | 32 | 33 | | | | | | | 47 | B81 | | *8101 | | | | | | | | | | | | | | |
| | 28 | | 33 | | | | | | | 47 | - | | *8102 | | | | | | | | | | | | | | |
| | 28 | | 33 | | | | | | | 47 | - | | *8103, 8104N | | | | | | | | | | | | | | |
| | 28 | 32 | | | | | 41 | | | 47 | - | | *8201, 8202 | | | | | | | | | | | | | | |
| | 28 | 29 | 32 | | | | 39 | | | 47 | - | | *8301 | | | | | | | | | | | | | | |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | ser. ⁵ | HLA-B allele ⁴ | Well No. | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | Cw*0130 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | Cw*0206 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | Cw*0223 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | Cw*0305, 0325, 0327 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | Cw*0312, 0319 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | Cw*0620 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | Cw*0746 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | Cw*150204 | | |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | | | Well No. | | |

⁴The sequence of the B*0701 allele has been shown to be in error.

The sequence of the B*1305 allele has been shown to be identical to B*1304.

The B*1324 allele has been renamed B*132202.

The sequence of the B*150105 allele has been corrected and renamed B*9520.

The B*1522 allele has been renamed B*3543.

The sequence of the B*1541 allele has been shown to be identical to B*1539.

The B*1559 allele has been renamed B*3544.

The B*9530 allele has been renamed B*152702.

The sequence of the B*1816 allele has been shown to be identical to B*1814.

The sequence of the B*27051 allele has been shown to be identical to B*27052.

The sequence of the B*2722 allele has been shown to be identical to the corrected B*2706 sequence.

The B*3573 allele has been renamed B*350803.

The sequence of the B*39012 allele has been shown to be identical to B*39011.

The sequence of the B*3921 allele has been shown to be identical to B*3924.

The sequence of the B*4017 allele has been shown to be identical to B*4016.

The sequence of the B*4041 allele has been shown to be identical to B*4040.

The sequence of the B*4203 allele has never been assigned.

Lot No.: 63G**Lot-specific information****www.olerup-ssp.com**

The sequence of the B*4401 allele has been shown to be identical to B*4402.

The sequence of the B*5003 allele has been shown to be identical to B*5002.

The sequence of the B*5125 allele has been shown to be identical to B*5122.

The B*5147 allele has been renamed B*510902.

The sequence of the B*5506 allele has been shown to be identical to B*5504.

The sequence of the B*5803 allele has never been assigned.

The B*7901 allele has been renamed B*1518.

The B*9530 allele has been renamed B*152702.

⁵The serological reactivity of all HLA-B alleles is not known. In this table we used the information published in *Tissue Antigens* 1999: **54**: 409-437, also available at the www.worldmarrow.org web site.

⁶The B*0826 and the B*4207 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B*1408 and the B*3925N, 3930, 3932-3934, 3947 and 3950 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B*180702 and 1829 and the B*3532, 3537, 3553N, 3564, 3566, 356801-356802 and 3599 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B*4109 and the B* 4502 and 4503 give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B*5504, 5508, 5513 and 5527 and the B* 5615, 5619N and 5622 give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B*5523 and 5532 and the B*5618 give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

'ser', serological HLA specificity.

'w', might be weakly amplified.

'?', nucleotide sequence information not available for the primer matching sequence.

| CELL LINE VALIDATION SHEET | | | | | | | | | | | | | | | | |
|------------------------------|-----------------|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-B low resolution SSP kit | | | | | | | | | | | | | | | | |
| | Prod. No.: | Well | | | | | | | | | | | | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 1 | 9001 SA | *0702 | + - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - |
| 2 | 9280 LK707 | *5201 | *7301 | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | + - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - |
| 3 | 9011 E4181324 | *52011 | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | + - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - |
| 4 | 9275 GU373 | *1510 | *5301 | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | + - - - - | - - - - - | - - - - - | - + - - - | - + - - - | - - - - - | - - - - - | - - - - - |
| 5 | 9009 KAS011 | *3701 | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - + - - - | - + - - - | - - - - - | - - - - - |
| 6 | 9353 SM | *3901 | *5101 | - - - - - | - - - - - | + - - - - | - - - - - | - - - - - | - + - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - |
| 7 | 9020 QBL | *1801 | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - + - - - | - + - - - | - + - - - | - - - - - | - - - - - |
| 8 | 9025 DEU | *3501 | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - + - - - | - - - - - | - - - - - | - - - - - | - - - - - |
| 9 | 9026 YAR | *3801 | - - - - - | - - - - - | + - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - |
| 10 | 9107 LKT3 | *5401 | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - |
| 11 | 9051 PITOUT | *4403 | - - - - + | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - |
| 12 | 9052 DBB | *5701 | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - + - - - | - - - - - | - - - - - | - - - - - | - - - - - |
| 13 | 9004 JESTHOM | *2705 | - - - - - | - - - - + | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | + - - - - |
| 14 | 9071 OLGA | *1501 | *1520 | - - - - - | - - - - - | - - - - + | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - + - - - | - - - - - | - - - - - | - - - - - |
| 15 | 9075 DKB | *4001 | - - - - - | - - - - + | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - |
| 16 | 9037 SWEIG007 | *4002 | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - |
| 17 | 9282 CTM3953540 | *0801 | *5501 | - + - - - | - - - - - | - - - - - | - - - - + | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - |
| 18 | 9257 32367 | *1401 | *5601 | - - - - - | - - - + + | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - |
| 19 | 9038 BM16 | *1801 | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - + - - - | - + - - - | - + - - - | - - - - - | - - - - - |
| 20 | 9059 SLE005 | *4001 | - - - - - | - - - + - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - |
| 21 | 9064 AMALA | *1501 | - - - - - | - - - - - | - - - - - | - - - - + | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - + - - - | - + - - - | - - - - - | - - - - - | - - - - - |
| 22 | 9056 KOSE | *3503 | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - |
| 23 | 9124 IHL | *4002 | *5602 | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - |
| 24 | 9035 JBUSH | *3801 | - - - - - | - - - - + | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - |
| 25 | 9049 IBW9 | *1402 | - - - - - | - - - + - | - - - + - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - |
| 26 | 9285 WT49 | *5801 | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - + - - - | - - - - - | - - - - - | - - - - - |
| 27 | 9191 CH1007 | *0705 | *5101 | + - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | + - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - |
| 28 | 9320 BEL5GB | *4402 | *4403 | - - - - - | - - - + - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - |
| 29 | 9050 MOU | *4403 | - - - - - | - - - + - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - |
| 30 | 9021 RSH | *4201 | - - - - - | - - - - - | - - - - - | - - - - - | - - - - + | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - |
| 31 | 9019 DUCAF | *1801 | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - + | - - - - + | - - - - + | - - - - + | - - - - + |
| 32 | 9297 HAG | *4102 | - - - - - | - - - + - | - - - - - | - - - - - | - - - - + | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - |
| 33 | 9098 MT14B | *4001 | - - - - - | - - - + - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - |
| 34 | 9104 DHIF | *3801 | - - - - - | - - - - + | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - |
| 35 | 9302 SSTO | *4402 | - - - - - | - - - + - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - |
| 36 | 9024 KT17 | *1501 | *3501 | - - - - - | - - - - - | - - - - - | - - - - + | - - - - - | - - - - - | - - - - - | - - - - - | - + - - - | - + - - - | - + - - - | - + - - - | - + - - - |
| 37 | 9065 HHKB | *0702 | + - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - |
| 38 | 9099 LZL | *1501 | - - - - - | - - - - - | - - - - - | - - - - + | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - + - - - | - + - - - | - + - - - | - + - - - | - + - - - |
| 39 | 9315 CML | *0801 | *2705 | - + - - - | - - - + - | - - - - - | - - - - + | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - + - - - |
| 40 | 9134 WHONP199 | *1302 | *4601 | - - + + - | - - + + - | - - + + - | - - + + - | - - + + - | - - + + - | - - + + - | - - + + - | - + - - - | - + - - - | - + - - - | - + - - - | - + - - - |
| 41 | 9055 H0301 | *1402 | - - - - - | - - - + - | - - - + - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - |
| 42 | 9066 TAB089 | *4601 | - - - - - | - - - - - | - - - - - | - - - - - | - - - - + | - - - - - | - - - - - | - - - - - | - - - - - | - + - - - | - + - - - | - + - - - | - + - - - | - + - - - |
| 43 | 9076 T7526 | *4601 | - - - - - | - - - - - | - - - - - | - - - - - | - - - - + | - - - - - | - - - - - | - - - - - | - - - - - | - + - - - | - + - - - | - + - - - | - + - - - | - + - - - |
| 44 | 9057 TEM | *3801 | - - - - - | - - - - - | - - - - + | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - |
| 45 | 9239 SHJO | *4201 | *5001 | - - - - - | - - - + - | - - - - - | - - - - + | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - |
| 46 | 9013 SCHU | *0702 | + - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - |
| 47 | 9045 TUBO | *5101 | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - + | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - |
| 48 | 9303 TER-ND | *3501 | *4403 | - - - - - | - - - + - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - + - - - | - + - - - | - + - - - | - + - - - | - + - - - |

| CELL LINE VALIDATION SHEET | | | | | | | | | | | | | |
|------------------------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-B low resolution SSP kit | | | | | | | | | | | | | |
| | Prod. No.: | Well | | | | | | | | | | | |
| | | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| | | 200963317 | 200959418 | 200959419 | 200963320 | 200959421 | 200959422 | 200959423 | 200959424 | 200959425 | 200963326 | 200963327 | 200959428 |
| IHWC cell line | B* | | | | | | | | | | | | |
| 1 9001 SA | *0702 | - | - | - | + | - | - | - | + | - | - | - | + |
| 2 9280 LK707 | *5201 | *7301 | - | - | - | - | - | - | + | - | - | - | + |
| 3 9011 E4181324 | *52011 | - | - | - | - | - | - | - | - | - | - | - | - |
| 4 9275 GU373 | *1510 | *5301 | + | - | + | - | - | - | - | - | - | - | - |
| 5 9009 KAS011 | *3701 | - | - | - | + | - | - | - | - | - | - | - | + |
| 6 9353 SM | *3901 | *5101 | - | - | - | + | - | + | + | - | - | - | + |
| 7 9020 QBL | *1801 | - | + | - | - | - | - | - | - | - | - | - | - |
| 8 9025 DEU | *3501 | - | + | - | - | - | - | - | - | - | - | - | - |
| 9 9026 YAR | *3801 | - | - | - | - | + | + | - | - | - | - | - | - |
| 10 9107 LKT3 | *5401 | - | - | - | - | - | - | - | - | - | - | + | - |
| 11 9051 PITOUT | *4403 | + | - | - | - | - | - | - | - | - | - | - | + |
| 12 9052 DBB | *5701 | + | - | - | - | - | - | - | - | - | - | - | - |
| 13 9004 JESTHOM | *2705 | - | - | - | - | - | - | - | - | - | - | + | - |
| 14 9071 OLGA | *1501 | *1520 | + | - | + | - | - | - | - | - | - | - | - |
| 15 9075 DKB | *4001 | - | - | - | - | - | - | + | + | - | - | - | - |
| 16 9037 SWEIG007 | *4002 | - | - | - | - | - | - | - | - | + | - | - | - |
| 17 9282 CTM3953540 | *0801 | *5501 | - | - | - | - | - | + | - | - | + | + | - |
| 18 9257 32367 | *1401 | *5601 | - | - | - | - | - | + | + | - | - | + | - |
| 19 9038 BM16 | *1801 | - | + | - | - | - | - | - | - | - | - | - | - |
| 20 9059 SLE005 | *4001 | - | - | - | - | - | - | + | + | - | - | - | - |
| 21 9064 AMALA | *1501 | - | - | + | - | - | - | - | - | - | - | - | - |
| 22 9056 KOSE | *3503 | - | + | - | - | - | - | - | - | - | - | - | - |
| 23 9124 IHL | *4002 | *5602 | - | - | - | - | - | - | - | + | - | + | - |
| 24 9035 JBUSH | *3801 | - | - | - | - | + | + | + | - | - | - | - | - |
| 25 9049 IBW9 | *1402 | - | - | - | - | - | + | + | - | - | - | - | - |
| 26 9285 WT49 | *5801 | - | + | - | - | - | - | - | - | - | - | - | - |
| 27 9191 CH1007 | *0705 | *5101 | - | - | - | - | - | + | - | - | + | - | + |
| 28 9320 BEL5GB | *4402 | *4403 | + | - | - | - | - | - | - | - | - | + | - |
| 29 9050 MOU | *4403 | - | - | - | - | - | - | - | - | - | - | + | - |
| 30 9021 RSH | *4201 | - | - | - | - | - | - | + | - | - | + | + | - |
| 31 9019 DUCAF | *1801 | - | + | - | - | - | - | - | - | - | - | - | - |
| 32 9297 HAG | *4102 | - | - | - | - | - | - | + | - | - | + | - | - |
| 33 9098 MT14B | *4001 | - | - | - | - | - | - | + | + | - | - | - | - |
| 34 9104 DHIF | *3801 | - | - | - | - | + | + | + | - | - | - | - | - |
| 35 9302 SSTO | *4402 | - | - | - | - | - | - | - | - | - | - | + | - |
| 36 9024 KT17 | *1501 | *3501 | + | + | + | - | - | - | - | - | - | - | - |
| 37 9065 HHKB | *0702 | - | - | - | - | - | - | + | - | - | + | - | - |
| 38 9099 LZL | *1501 | - | - | + | - | - | - | - | - | - | - | - | - |
| 39 9315 CML | *0801 | *2705 | - | - | - | - | - | + | - | - | + | + | - |
| 40 9134 WHONP199 | *1302 | *4601 | - | - | - | - | - | - | - | - | + | - | + |
| 41 9055 H0301 | *1402 | - | - | - | - | - | + | + | - | - | - | - | - |
| 42 9066 TAB089 | *4601 | - | - | - | - | - | - | - | - | - | + | - | + |
| 43 9076 T7526 | *4601 | - | - | - | - | - | - | - | - | - | + | - | + |
| 44 9057 TEM | *3801 | - | - | - | - | + | + | + | - | - | - | - | - |
| 45 9239 SHJO | *4201 | *5001 | - | - | - | - | - | + | - | - | + | + | - |
| 46 9013 SCHU | *0702 | - | - | - | - | - | - | + | - | - | + | - | - |
| 47 9045 TUBO | *5101 | - | - | - | - | - | - | - | - | - | - | + | - |
| 48 9303 TER-ND | *3501 | *4403 | + | + | - | - | - | - | - | - | + | - | - |

| CELL LINE VALIDATION SHEET | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| HLA-B low resolution SSP kit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | 200959433 | 200959434 | 200959435 | 200959436 | 200959437 | 200959438 | 200967039 | 200967040 | 200959441 | 200959442 | 200963343 | 200959444 | 200959445 | 200959446 | 200959447 |
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CERTIFICATE OF ANALYSIS

Olerup SSP® HLA-B low resolution SSP

Product number: 101.501-48/12 – including *Taq* pol.
Lot number: 63G
Expiry date: 2011-November-01
Number of tests: 48 tests – Product No. 101.501-48
12 tests – Product No. 101.501-12
Number of wells per test: 47 + 1

Well specifications:

| Well No. | Production No. | Well No. | Production No. | Well No. | Production No. |
|-----------------|-----------------------|-----------------|-----------------------|-----------------|-----------------------|
| 1 | 2009-594-01 | 17 | 2009-633-17 | 33 | 2009-594-33 |
| 2 | 2009-594-02 | 18 | 2009-594-18 | 34 | 2009-594-34 |
| 3 | 2009-633-03 | 19 | 2009-594-19 | 35 | 2009-594-35 |
| 4 | 2009-633-04 | 20 | 2009-633-20 | 36 | 2009-594-36 |
| 5 | 2009-633-05 | 21 | 2009-594-21 | 37 | 2009-594-37 |
| 6 | 2009-633-06 | 22 | 2009-594-22 | 38 | 2009-594-38 |
| 7 | 2009-594-07 | 23 | 2009-594-23 | 39 | 2009-670-39 |
| 8 | 2009-594-08 | 24 | 2009-594-24 | 40 | 2009-670-40 |
| | | | | | |
| 9 | 2009-670-09 | 25 | 2009-594-25 | 41 | 2009-594-41 |
| 10 | 2009-670-10 | 26 | 2009-633-26 | 42 | 2009-594-42 |
| 11 | 2009-594-11 | 27 | 2009-633-27 | 43 | 2009-633-43 |
| 12 | 2009-594-12 | 28 | 2009-594-28 | 44 | 2009-594-44 |
| 13 | 2009-633-13 | 29 | 2009-633-29 | 45 | 2009-594-45 |
| 14 | 2009-670-14 | 30 | 2009-594-30 | 46 | 2009-594-46 |
| 15 | 2009-594-15 | 31 | 2009-594-31 | 47 | 2009-594-47 |
| 16 | 2009-594-16 | 32 | 2009-633-32 | | |

The specificity of each primer solution of the kit has been tested against 48 well characterized IHWC cell line DNAs.

Additional 5'-primers and 3'-primers in primer solutions 3, 14, 19, 29, 31 and 40 were tested by separately adding one additional 3'-primer, respectively one additional 5'-primer. Additional 3'-primers in primer solutions 2, 13 and 35 were tested by separately adding one additional 5'-primer. Additional 5'-primers in primer solutions 1 and 21 were tested by separately adding one additional 3'-primer. In primer solution 31, one 5'-primer was not possible to test.

The negative control primer pairs, **Production No. 2009-614-01**, can detect contamination with PCR products diluted 10⁻⁷.

Results: No false positive or false negative amplifications were obtained.

Date of approval: 2010-August-31

Approved by:

Quality Control, Supervisor

Declaration of Conformity

Product name: Olerup SSP® HLA-B low resolution

Product number: 101.501-48/12

Lot number: 63G

Intended use: HLA-B low resolution histocompatibility testing

Manufacturer: Olerup SSP AB
Hasselstigen 1
SE-133 33 Saltsjöbaden, Sweden

Phone: +46-8-717 88 27

Fax: +46-8-717 88 18

We, Olerup SSP AB, hereby declare that this product, to which this Declaration of Conformity relates is in conformity with the following Standard(s) and other normative document(s) ISO 9001:2008 and ISO 13485:2003, following the provisions of the 98/79/EC Directive on *in vitro* diagnostic medical devices, Annex II List B, conformity assessed using Annex IV, as transposed into the national laws of the Member States of the European Union.

The Technical Documentation File is maintained at Olerup SSP AB, Hasselstigen 1, SE-133 33 Saltsjöbaden, Sweden.

The Authorized Representative located within the Community is: Olerup SSP AB.

Notified Body: Lloyd's Register Quality Assurance Limited, Hiramford, Middlemarch Office Village, Siskin Drive, Coventry CV3 4FJ, United Kingdom.
(Notified Body number: 0088.)

Saltsjöbaden, Sweden
2010-August-31

Olle Olerup
Managing Director

**HLA-B low resolution
101.501-48/12 – including *Taq* polymerase**

Lot No.: 63G

Product Insert

Lot-specific information

General “**Instructions for Use**”

IFU-01 Rev. No. 01 can be downloaded from

www.olerup-ssp.com

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August 2010
Rev. No.: 03



0088

For *In Vitro* Diagnostic Use.

**HLA-B low resolution
101.501-48/12 – including *Taq* polymerase**

Lot No.: 63G

Product Insert

Lot-specific information

General “**Instructions for Use**”

IFU-01 Rev. No. 01 can be downloaded from

www.olerup-ssp.com

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August 2010
Rev. No.: 03



0088

For *In Vitro* Diagnostic Use.

ADDRESSES:

Manufacturer:

Olerup SSP AB, Hasselstigen 1, SE-133 33 Saltsjöbaden, Sweden.

Tel: +46-8-717 88 27

Fax: +46-8-717 88 18

E-mail: info-ssp@olerup.com

Web page: <http://www.olerup.com>

Distributed by:

Olerup GmbH, Löwengasse 47 / 6, AT-1030 Vienna, Austria.

Tel: +43-1-710 15 00

Fax: +43-1-710 15 00 10

E-mail: support-at@olerup.com

Web page: <http://www.olerup.com>

Olerup Inc., 901 S. Bolmar St., Suite R, West Chester, PA 19382

Tel: 1-877-OLERUP1

Fax: 610-344-7989

E-mail: info.us@olerup.com

Web page: <http://www.olerup.com>

For information on *Olerup SSP* distributors worldwide, contact **Olerup GmbH**.